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BALTIMORE, MARCH 30, 1911.

THE NAVAL STORES TRADE.

Qualified observers in naval stores centers incline to the belief that the day of spirits of turpentine at one dollar a gallon has come to stay just as other students of the cotton situation believe that 15 cents a pound for the staple is about the price that is to prevail for an indefinite time. The reasons are somewhat similar in both cases. In an interesting review of the recent phenomenal advance in the naval stores trade, by R. M. Martin of Savannah, published on another page of this week's issue of the MANUFACTURERS RECORD, is sketched the advance in the price of spirits of turpentine from 22 cents a gallon in 1896 to 60 cents a gallon at this time last year, and to something more than $1.05 a gallon last Thursday, and in the price of rosin in ten years from $2 or $2.75 a round barrel in one grade to nearly $16 a barrel, and Mr. Martin points out that while the element of speculation has entered into the remarkable advances, the question of supply has been largely the great influence. Supply has depended upon changes in labor conditions from a time 20 years ago when the laborers were plentiful and reliable until today, when their number and their reliability have greatly lessened, upon increased cost in the manufacture of turpentine and upon the lessening areas of the pine forests. Unreliability of the labor supply and the increased cost of making a crop, together with the failure of acre production to keep pace with the demand of world markets, have been potent factors in bringing the price of cotton in 15 years from 6 cents or 7 cents a pound to 14 or 15 cents a pound. But in the case both of naval stores and of cotton the increased prices, which for the time mean a great addition annually to the wealth of the South, have directed attention more and more upon methods of handling the forest and the fields so scientifically that this annual income from these two sources may be maintained. There is a wider and wider conception of the advantage in adopting cultural methods that will increase the acre yield of cotton, even if the acreage itself is not widened, and of so handling the pines that the crop of turpentine will not mean their destruction. Already the spirit of conservation, both in careful handling to prevent destruction and in complete utilization to give the full returns, is developing, and the present era of high prices may reasonably be expected to further the growth of that spirit.

A NOTABLE ELECTRIC RAILWAY.

The award of contracts for the construction of the electric interurban railway which is to connect Charlotte, Gastonia, Kings Mountain, Spartanburg, Greenville, Anderson, Greenwood and other towns in the Carolinas is the beginning of actual work upon the first great transportation proposition of this kind in the South. There have been other electric railways of an interurban character, but none of them was of the magnitude of this plan that is conceived upon a large scale and will doubtless be executed in accordance with broad ideas. When completed between the places herein named, it will form a continuous railway about 175 miles long, equipped with high speed cars and conducting both freight and passenger business.

This railroad will be an impressive example of what can be accomplished at one stroke by intelligence, energy and capital united for the accomplishment of a carefully thought out plan, extensive in nature and well calculated for the greater development of the several manufacturing communities which it will provide with modern and adequate facilities. Although of the same general character as the Washington, Baltimore & Annapolis Electric Railway, the Richmond & Petersburg line, the Augusta & Aiken Railway and some other roads, so far as the connection of important points with an electric railway is concerned, it is different from them as to length and the proposition to do a general railroad business from the very beginning are concerned. It is evidently contemplated to finish the railway within a couple of years, for the grading contracts now let must be completed by the end of fifteen months, and although there is another contract (that between Spartanburg and Kings Mountain) to be awarded, it will doubtless be let soon so that the line may be connected up all the way through from Charlotte to Greenwood without delay.

During the last four or five years there have been different projects to build electric railways between Greenville and Spartanburg, Greenville and Greenwood, and Greenville and Anderson. Companies were formed and other steps taken toward construction, but nothing definite was done, barring the building of a short piece of line from Anderson to Belton. At one time quite an ambitious plan was started under the name of the South Carolina Public Service Corporation, the promoters of which aimed to build five or six hundred miles of electric interurban railroads, touching practically every important place in that State. But the financial panic happened, and since then little has been heard of that extensive scheme. In North Carolina there was also talk of new and extensive electric railways, and just now there is apparently good prospect for the success of the North Carolina Interurban Electric Railway Co.'s plan to build from Gastonia to Rutherfordton and Asheville, about 100 miles. Gastonia is one of the points to be reached by the line from Charlotte to Greenwood, and this new line, it is expected, will work in harmony with the larger enterprise.

The charters which the Piedmont Traction Co. and the Piedmont & Northern Railroad Co., as the latter is known in North and South Carolina respectively, are broad, and will enable the company to build extensively as may be found necessary after the completion of the work now proposed, or before, if the need for other lines becomes soon apparent. Authority is granted for the company to extend its line to the Georgia boundary and it may also enter the following places in South Carolina if the local authorities consent: Columbia, Newberry, Lexington, Saluda, Chester, Union, Gaffney, Laurens and Abbeville, besides others between those named. There has, furthermore, been considerable talk about possibly extending to Charleston or some other city on the seacoast. In North Carolina the company may also be called upon to build extensions out of Charlotte.

In its entirety this is one of the most interesting electric railways ever started. It will begin work in a populous manufacturing region and is assured by contracts of a liberal amount of freight traffic from the time it shall begins operating, besides the passenger business that is awaiting it. The possibilities of the enterprise are very great, and it would be no surprise to see it greatly expand, not only in both States where it has been chartered, but in others. It seems to have the friendliness of the people along the route, and its backers appear determined to win their confidence and hold their good will.

MISSISSIPPI CUT-OVER LANDS.

At its annual meeting next month the Mississippi Pine Association expects to take definite action upon the plan of its secretary, Mr. James A. Kirby, for the utilization of the cut-over pine lands in the State. The plan contemplates either the organization of the bureau within the association or a merging of yellow pine manufacturers and the owner of cut-over lands to undertake the general advertising, sale and colonization of such lands in South Mississippi. There are in the State 2,656,672 acres of cut-over timber land where reforesting is not under way. Upon some of that land demonstration has been made of the valuable qualities of the soil for agricultural purposes. Secretary Kirby's plan looks to the establishment under the auspices of the proposed bureau of a small experimental farm upon the land of each owner cooperating in the movement, the erection upon it of a cottage and necessary outhouses, the whole after improvement to be sold at the very minimum price and upon terms of easy payment, more care being taken in the selection of a buyer than in the price obtained, to the end that the experimental farms may be advertisments of the possibilities of the soil. The plan seems to be quite a practical one, and properly developed it should become an effective agency in inducing the right sort of immigration into Mississippi.

INTENSIVE NEW ENGLAND.

Open-minded students in this part of the country of the history and character of New England, acquainted though they might be with the intent of recent stirrings in that section, would be slow to acknowledge that New England had neglected any opportunity to make the best of every situation within its borders. Many New Englanders, either at home or of the migration, would share that impression. But some New Englanders will have it otherwise. They are convinced that, notwithstanding all that has been accomplished, much can yet be done for the greatness of their section. Hear them:

> New England is the land of opportunity. It has the greatest potential future of any section of the country, for reasons that are obvious. It is no argument against the future of New England to say that it does not utilize its opportunities. No section of the United States does that. No State does it, nor any town. It has not been necessary to do so, and until it is necessary it will not be done. New England comes nearer to applying the intensive method to its industries and to its agriculture than any other section, and its business men are giving the subject more practical study and attention. They will be ready whenever the country demands more than the cream. They are now ready, in many lines, and there is a vast amount of work now going on in many other lines in the way of preparation.

Readiness is manifest in the fact of the publication of the volume from which these words are quoted, a volume edited by George French for the Boston Chamber of Commerce.* This handsome work is the product of the enterprise and progressiveness of a set of hard-headed men of business who know what they want and understand how to

*New England: What It is and What It Is To Be. Edited by George French. Published by the Boston Chamber of Commerce.

obtain the means of gaining their laudable end. In its production there has been co-operation of experts in their respective lines, qualified to present authoritative and pertinent facts in a style so attractive as to compel the thoughtful reader to follow eagerly the story of New England, from the broad, comprehensive editorial introduction epitomizing the main lines of New England's advantages and achievements, on through the several chapters dealing with manufacturing, water-powers, agriculture, soils, forestry, workmen, industrial Boston, transportation, good roads, commerce, summer resorts, education, religion, publicity work, civic enterprises, commission government and individual States, into the conclusion, which sums up the demonstrations that New England is entering a period of accelerated progress that may induce the most notable development that the country may show in the next fifty years. Statistics there are a-plenty, but in shape not sufficient to break the thread of the interesting story, told because of a belief on the part of its projectors that New Englanders have not been as keenly alive to the growth of their own section as they have been as to every other section.

This has come about, as the volume elaborates, largely because of the pioneer instincts of the New Englanders dating from the original settlement. But their projecting around in other quarters, while influential in the development of the country as a whole, has diminished the total of New England initiative and energy to be expended at home and for the benefit of home. The migratory spirit is still strong, but the Boston Chamber of Commerce, typical of the business acumen and forehandedness of New England, believes that the migration may be checked, if a return movement may not be started, and the attractive, practical volume that it has published, giving plain facts as to present conditions and positive potentialities, is well calculated to emphasize effectively the truth that for New Englanders there is no place like New England. In that it preaches the doctrine of intensive culture in many lines and bases the argument upon the fact:

Now men are thinking about efficiency instead of discovery, about methods instead of opportunity, about intensive cultivation of that which is at hand rather than taking up new quarter sections, about developing placer and dredge mining in place of prospecting for loose nuggets of metal, about economies of production and better methods of selling and distributing, as well as the building of new factories. A great industrial revolution is in progress. The question is not now wholly one of enterprise. It involves more particularly problems of economic production and distribution. The industrial and financial subsoil is being turned up, as well as the subsoil of the lands that were not long ago considered as inexhaustible granaries with unlimited holding capacity. From being considered and operated as gambling propositions, the various branches of business in America are being turned into sane and sound enterprises, based upon demand and economic supply. The rise of this spirit has given New England its second opportunity, and as it becomes operative this section will again be esteemed for that which it can offer in enterprise and thrift.

This work of the Boston Chamber of Commerce should be read by every man concerned for the advancement of the South. To every such a one the book must be an inspiration—because many hard problems that must be settled, and that will be settled, by the indomitable New England spirit in bringing out all the possibilities of that section are grounded in the comparative lack of the many natural resources with which the South abounds. Their very abundance is responsible for their neglect in great measure. In the early days the rich, virgin lands of Alabama and Mississippi drew enterprising men from Virginia and the Carolinas and thereby hampered the campaign for soil conservation and improvement in the older States. There has always been a westward migration in the South as in the North, though with less reason. But its influence is still felt in the inclination to move on to new fields instead of intelligently making the most of the wonderful opportunities at home. There is, however, a great awakening in the South on that point. The reclamation to agriculture of the most productive kind of wet lands in half a dozen States, the interest taken in the utilization of cut-over pine lands and the gradual turning from one money crop, like cotton, tobacco or sugar, to diversified farming and truck-growing, are manifestations of the new spirit that is bound to develop an aggressiveness and variety in industry in the South well equipped as to natural resources for an enormous expansion in materialities which New England will be obliged to seize with difficulty in its section. Such a spirit will lead Southerners to the conviction that there is no place like home, and in the cultivation of that spirit the movement inaugurated under the auspices of the Carolina, Clinchfield & Ohio Railway, the "Back Home Movement" for the South ought to be an effective agency.

SAWDUST.

The world-wide movement for the economic utilization of the wastes of industries seems just at present to be centering to a large degree about sawdust. Study of this subject has made considerable progress in this country, and for fifteen years attempts have been made in Germany to dispose of sawdust profitably by deriving charcoal and wood alcohol from it. These efforts, however, according to Consuls-General A. M. Thackara and R. P. Skinner, have been comparatively unsuccessful because of the character of the sawdust and for technical reasons, and they further state that the delay in the manufacture of fuel briquettes from sawdust is partly due to the high development of the industry of briquetting hard and soft coal, and even peat, which have a greater caloric strength than the sawdust. But several patents for briquetting sawdust have been granted and machines to make them are manufactured, the purpose of the different processes being largely to make sawdust more available as fuel for sawmill boilers, though production for other industrial and household uses is also contemplated. In some of the processes dependence is had upon the tar, pitch and rosin contents of the sawdust for a binder, but there are several patents for using special binders, one of them providing for the briquetting of sawdust and ground-up wood refuse under high pressure with caustic cellulose-sulphite refuse of wood pulp manufacture. Another briquette is made from the refuse of quebracho wood, logwood, fustic wood, chestnut and oak steeped in lye, carefully dried and then pressed.

Bricks of ordinary clay and sawdust burned in an ordinary kiln are made, the sawdust being destroyed in the burning, leaving an extremely porous, but otherwise sound and light brick. A cement and sawdust brick is made by mixing slake lime, mortar, burnt pulverized hydraulic lime, sulphuric acid, plaster of Paris and sawdust, the white and black lime acting as agglutinants, the sulphuric acid making the mixture hot, the plaster of Paris drying it quickly and the sawdust giving it body.

Sawdust, combined with blood and solutions of glue, starch, flour and aluminic sulphate, is used in making artificial woods for moldings and other finishings, taking a high polish and combined with chloride of magnesium to form a material possessing the qualities both of wood and slate. The discussion of these processes as worked out in Germany by Messrs. Thackara and Skinner in *Daily Consular and Trade Reports* is of timely interest in view of the progress being made in this country toward turning sawdust and other lumber wastes to good account.

READERS OF THE MANUFACTURERS RECORD.

An illustration of the use made of the pages of the MANUFACTURERS RECORD, an example of the far-reaching influence of a single copy, is given in a letter from Mr. W. P. Cutter, librarian of the Library of the Engineering Societies of New York. This library is used by three engineering societies of national scope. In reply to an inquiry, Mr. Cutter writes:

The persons who use the library include not only the membership of those societies, but many of the general public are interested in increasing the development of the Southern States, particularly in such questions as development of hydro-electric power, iron and coal mining, electric railways and lighting, and such applications of machinery to agricultural purposes as is more particularly characteristic of the Southern States. We have found the MANUFACTURERS RECORD to be of great value in this direction. I may say that I personally remember using the MANUFACTURERS RECORD while librarian of the Department of Agriculture, from 1893 to 1900, and remember that at that time it was practically the only authority on the development of the South.

Mr. Robert W. Wishart, secretary of the Commercial Club, Stuttgart, Ark., writes that the position of secretary of the club was filled through an advertisement in the MANUFACTURERS RECORD, and Mr. Charles Hall, Jr., of the Board of Trade of Norton, Va., writes that negotiations resulting in the employment of Mr. S. H. Walthall of Gulfport, Miss., as commercial secretary of the Board of Trade, were started from an item in the MANUFACTURERS RECORD. These facts are suggestive of the value of our publication to live business bodies, and they are reinforced by a letter from Mr. S. R. Shepherd, secretary of the Commercial Club at Orange, Tex., who says:

Please don't stop sending me the MANUFACTURERS RECORD. It is one of the thoroughly good papers for the commercial secretary, and I don't want to lose a number.

Other encouraging messages are reproduced with pleasure. Mr. Lewis T. Baxter of Lewis T. Baxter & Son, real estate, Nashville, Tenn., writes:

In renewing my subscription to the MANUFACTURERS RECORD I feel that I am getting far more than value received, for I know of no other source from which the whole South has received greater inspiration for renewed efforts to develop her wonderful resources.

Aubrey McConnell, 1401 S. Juniper street, Philadelphia, writes:

Kindly permit me to assure you that I feel deeply grateful toward the MANUFACTURERS RECORD and its columns for the valuable information imparted to me. I consulted it on many occasions and always found that which I desired. Its every issue was always welcome and carefully read. Its vast fund of information relative to building and allied interests was ever of instructive and practical service. I have always been impressed with the system and have watched it increase from year to year. Its work has been of incalculable value.

J. M. Lang & Co., phosphate rock and fertilizer material, Savannah, Ga., write:

We wish to congratulate you on the good work your paper is doing in the South, and wishing you continued success, we are

Mr. George L. McKay, general manager of the Isothermal Traction Co., Rutherfordton, N. C., writes:

So many compliments reach you that another one would merely swell the list, but I desire to be recorded as appreciating to the fullest extent the genius of your publication and its sterling worth to all engaged in this business. Keep it coming and send statements to me personally.

Mr. R. L. Dowling of the Marion County Lumber Co., Silver Springs, Fla., writes:

The writer is taking your paper through his companies at one or two places, and is always pleased with it. He considers it one of the best magazines in the South for giving up-to-date information.

Mr. John W. Chandler, general sales agent Kirby Lumber Co., Houston, Tex., writes:

We receive the MANUFACTURERS RECORD regularly, and it is certainly one of the most interesting journals that comes into our office. It is read with interest.

Mr. R. B. Small, president and treasurer of the R. B. Small Company, manufacturers of sewer and railroad culvert pipe, Columbus, Ga., writes:

We receive your paper every week and read it with a great deal of profit and pleasure.

Mr. Robert P. Howell, general real estate, Lake Arthur, La., writes:

I cannot afford to do without the MANUFACTURERS RECORD.

Mr. Ed. Sohle, mill architect and consulting engineer, Charlotte, N. C., writes:

I am greatly satisfied with the MANUFACTURERS RECORD, and am looking every Thursday with anxiety for the mail, when the paper arrives. The *Daily Bulletin* is also of great help and interest, and certainly I am getting more than my money's worth.

PEANUTS.

Undoubtedly the largest field that presents itself to future use of the peanut is the cottonseed-oil mill. As the boll-weevil, by its ravages upon the cotton plant, reduces the seed receipts of these mills, what better opportunity is offered the oil mills to keep their plants running than by substituting the crushing of peanuts for cottonseed and allowing the peanut oil to fill in the gap left open by the falling off in cotton oil. Peanut oil, it must be clearly understood, can do more than meet every requirement of cotton oil, such as for cooking, dressing, salads, soaps and compounds, for it can go higher, even to the very high level of olive oil, for it must be known that peanut oil is the nearest approach to olive oil of any of the other vegetable oils. A chemical analysis will show very nearly the same properties in both oils. The residue, or cake (which is afterward ground into meal), can just as readily take the place of cottonseed meal.

These words in the Monthly Bulletin of the Department of Agriculture and Commerce of Mississippi, by Mr. C. U. Dahlgren of the Gloster Oil Co., call attention to the growing importance of a Southern crop, to which are devoted about 350,000 acres, yielding on an average about 36 bushels to the acre and totalling in value about $12,000,000 annually. The crop is of such importance as to warrant the publication by the National Department of Agriculture of Farmers' Bulletin No. 431, by W. R. Beattie, dealing with the culture and uses of the peanut. Mr. Beattie's conclusions are as follows:

The peanut is worthy of more general cultivation throughout the Southern States,

especially in the boll-weevil district, where it will in many cases be found more profitable than cotton.

The uses of peanuts as a general farm crop throughout the Southern States are becoming more numerous, especially as a means of providing suitable forage for range stock during the short winter period.

The demand for peanuts to be used in the preparation of human foods is constantly increasing.

The United States is a heavier buyer of peanut oil than is produced abroad, while there are thousands of acres of waste lands in the Southern States that would produce enough peanuts to keep the cottonseed-oil mills running and furnish more than enough oil for home consumption.

The peanut is a soil builder and renovator. If included in the crop rotation and properly handled, peanuts are not exhaustive of soil fertility.

While the average yield of peanuts is only about 34 bushels an acre, with proper methods a yield of 60 bushels of peas and 1 to 1½ tons of forage may reasonably be expected. There are authentic records of yields of 160 bushels of Spanish peas, together with 2 tons of forage, per acre.

The peanut vines, after the removal of all the first-class peas, have a feeding value practically equal to the cost of the field culture of the crop. An acre of first-class peanuts, calculating the yield at a ton of vines, worth from $8 to $10, and 60 bushels of peas, worth $40 to $60, will give an income of $48 to $70. The cost of growing an acre of peanuts is variously estimated at $12 to $25, including seed and fertilizers. These figures show a net return of $36 to $45, which is above the average for the crops as now grown in the United States, but decidedly lower than may be expected under favorable conditions and proper cultural methods.

GROWTH OF THE TELEPHONE.

Only about 35 years ago the telephone became a commercial proposition. The growth in the use of that time-saver is strikingly illustrated in some figures of the annual report of the American Telephone & Telegraph Co., dealing with the Bell Telephone System in the United States. At the end of 1910 the number of stations constituting that system in this country was 5,882,719, whereas in 1895 the number was only 309,502 and 855,911 in 1900. The increase in 1910 over 1909 was 740,027. Of the total number last year, 1,852,051 were operated by local, co-operative and rural independent companies having sublicense or connection contracts, and the total mileage of wire in use for exchange and toll service was 11,642,212 miles, not including mileage of wire, operated by connecting companies. The daily average of toll connections was 602,539 and of exchange connections 21,681,471, not including connecting companies. There were 4,030,668 bell stations, 2,082,960 exchange circuits, 4933 central offices and 1,852,051 bell connected stations. In additions to plant and real estate, $53,582,818 were spent, and in maintenance and reconstruction $52,028,000, the total expenditure for additions to plant during the past 11 years being $460,755,700, and for maintenance and reconstruction in the past eight years $283,500,000. Employes of the system now number 120,311, the increase of 15,355 over 1909 being 838, more than the total number of employes in 1895.

The plant of the system represents $610,999,964 of the total $753,323,720 of assets. In the past year the gross earnings were $165,612,881 and the expenses $114,618,473, leaving $50,994,408 net earnings, from which $11,556,864 were paid in interest and $25,160,786 were paid in dividends, leaving surplus earnings of $14,276,758.

CORRECTION.

In our commendation of March 16 of the public spirit of the Craddock-Terry Company of Lynchburg, Va., in its advertisement of the industrial South, we inadvertently cited the sales of nearly $1,250,000 worth of shoes by nine salesmen of the company as representing the total volume of sales by the company, which was, in fact, $3,383,667.

OKLAHOMA CITY.

Between 1908 and 1910 manufacturing business in Oklahoma City increased from $7,000,000 to $17,400,000, jobbing from $23,000,000 to $39,000,000, retailing from $16,000,000 to $25,800,000, and bank clearings from $52,185,068 to $122,823,587. The city has a population of 64,205, more than six times what it was in 1900, and nearly sixteen times as great as it was in 1890. Among the reasons for this growth set forth in the year-book of the Chamber of Commerce is the fact that the farmers of Oklahoma received in 1910 for certain products from 11,000,000 acres of land about one-fourth of the acreage of the State, $165,564,975, and that these products did not include some grains, poultry, the dairy or animals slaughtered or sold for slaughter, and that the combined mineral and agricultural production of the State in 1910 had a value of $400,000,000. The year-book not only publishes facts of the kind, but tells also the possibilities of the city and State as to farm crops, cattle raising, coal, petroleum, natural gas, asphalt, gypsum, salt, Portland cement rock, building stones and other minerals, transportation and banking.

SOUTH CAROLINA INDUSTRIES.

The labor division of the 1910 report of Commissioner E. J. Watson of the South Carolina Department of Agriculture, Commerce and Industries contains detailed statistics by counties of the manufacturing industries of the State. Their aggregate capital is $155,889,333 and their annual output is valued at $114,306,076. The capital invested is divided among industries as follows: Textile, $73,070,000; timber and lumber, $36,713,624; electricity, $24,155,147; fertilizers, $7,751,834; cottonseed-oil mills, $4,590,426; tobacco and cigars, $1,474,186; printing and publishing, $1,401,525; boxes, baskets, etc., $1,143,827; ice, $782,684; mineral and soda waters, $680,883; brick and tile, $635,750; foundries and machine shops, $521,374; flour and grist mills, $360,505; monuments and stones, $314,241; carriages and wagons, $236,800; gas, $221,635; bakery products, $192,905; furniture, etc., $148,000; mattresses, beds and brooms, $106,350; coffins and caskets, $100,000; clothing, $88,800; canneries, $82,850; saddlery and harness, $60,762; turpentine and rosin, $38,000, and confectionery, $17,500.

THE COTTON MOVEMENT.

In his report for March 24 Col. Henry G. Hester, secretary of the New Orleans Cotton Exchange, shows that the amount of cotton brought into sight during 205 days of the present season was 10,672,177 bales, an increase over the same period last year of 1,664,525 bales. The exports were 6,557,306 bales, an increase of 1,680,501 bales. The takings were, by Northern spinners, 1,740,819 bales, an increase of 17,919 bales; by Southern spinners, 1,611,803 bales, a decrease of 11,331 bales.

Virginia Apples.

According to statistics compiled by Mr. Walter Whatley of Crozet, secretary of the Virginia State Horticultural Society, 1,061,832 barrels of apples were shipped from Virginia in 1910, the Chesapeake & Ohio Railway carrying 265,862 barrels, the Norfolk & Western Railway 250,000, the Southern Railway 224,771, the Baltimore & Ohio Railroad 184,990 and the Cumberland Valley Railroad 136,309.

Of 5051 acres of land under irrigation near Laredo, Tex., 3047 acres are in onions.

The Phenomenal Advance in Naval Stores Trade.

By R. M. Martin of Savannah.

[Written for the Manufacturers Record.]

The story of Aladdin's famous lamp in the annals of fiction is hardly less wonderful than the fact of turpentine in the history and development of the South. Forests that a few years ago were selling from 10 cents to $1 an acre are today bringing prices which are in comparison nothing short of fabulous. Men who hardly knew where their next meal was to come from 20, and even 15 years ago, have through the increase in prices been made rich in many instances, and there are hundreds who have been made men of affairs and affluence in their respective communities, while no one about them has suffered through their wealth acquirement.

When spirits turpentine sold at $1.01 a gallon in this city a week ago people marveled and recalled the days of 1893, when it brought as low as 23 cents a gallon, and again to 1896, when the low record of 22 cents was reached. So far as is known, this is the lowest price at which spirits turpentine was ever sold anywhere in the world.

Those were hard days for the operators. Each day's work meant that so many good dollars had been lost, it varying according to the magnitude of the plant and the conditions surrounding it. Since 1896 the advance has been fairly steady. On Thursday, March 23, spirits sold at $1.05¾ per gallon, or 45¾ cents per gallon higher than the same day last year, when it was quoted at 60 cents. The present price is $52.62½ per cask of 50 gallons.

The highest point reached prior to this season was in June, 1905, when spirits sold at 79 cents, or $39.50 per cask. It sold last year and year before as low as 35 cents.

The advance in rosins has been even more pronounced than has that of spirits. Particularly does this apply to the lower grades. Ten years ago "D," which is next to the lowest grade made, sold at a range for the year from $1 to $1.40 per 280 pounds, which is a trifle more than half the weight of the barrels that are used, these containing more than 500 pounds, as a rule. Today, March 24, "D" is selling at $8 per 280 pounds, or nearly $16 per round barrel. Ten years ago it sold for as low as $2 per round barrel and as high as $2.75. Ten years ago "water white," which is the fine white rosin, sold as low as $2.25 per 280 pounds and as high as $3.95, or for the round barrel as low as $4.40 and as high as $7.50. Today water white is selling at $8.50 for 280 pounds, or about $16.50 for a round barrel.

The advance in the spirits market has been steady with the exceptions of the years of 1907-1908 and 1908-1909, when there were declines. Low-grade rosins also suffered sharply during the same years, while high grades ranged but slightly lower.

There are many reasons for this phenomenal advance, some of which are of necessity speculative. In the main, however, the law of supply and demand governs. In the history of the trade, or since records have been kept, which covers a period of about 35 years, the world's visible supply at this time is the smallest. The dry weather that has prevailed in the belt during the winter does not favor a heavy production for the early spring. The receipts at the ports are far under what they were a year ago, and show no signs of a rapid increase, continuing each day considerably under the figures of last year.

Labor conditions also assist materially in helping to boost prices. Twenty years ago labor was plentiful and reliable. Each year has seen the workers become fewer and less reliable. Ninety per cent. of the employes are negroes of the most migratory character. They are happy anywhere that they can get enough work for food and light raiment. They do not want anything more in most instances. Their pay now is 50 per cent. more than it was 10 years ago, and as they can make enough to live on in two or three days of work each week, the rest of the time is spent in loafing, to the detriment of themselves and their employers.

It costs a great deal more to manufacture turpentine now than in former years. This is mainly due to the higher prices paid for timber, higher wages for labor, higher prices for mules and wagons, as well as for feedstuffs. Ten years ago a good mule could be had for $150; today $300 is the price. It may not be generally known that the Boer War has figured in making the cost of naval stores higher, but it is true, for prior to the war good mules could be had for $100 a head, but when Great Britain bought 200,000 for use in its campaign against the Boers the prices of mules began to advance and the stock-raisers have never yet been able to keep up with the demand.

Fifteen, even ten years ago, a crop of 10,000 boxes could be leased for three years for from $200 to $300, the price varying according to the quality of the timber. This season as high as $1500 per crop has been paid.

Present high prices may not and hardly will be maintained during the approaching season, but the idea prevails that the day of dollar spirits is here to stay, and that it is as much of a fixture and is as firmly entrenched as is cotton on the 15-cent basis.

The fact that the forests are gradually disappearing of necessity means that a constantly diminishing supply will result. This means that with no greater demand than prevails at this time that prices cannot be lowered except at intervals. But when it is considered that the demand for naval stores is increasing, the question naturally arises, Where will prices eventually stop?

It is certain that more care will be taken of the pine in the future than ever before. Its value is coming to be realized by the owners. In a word, the high prices of the products of the pine means that conservation starts automatically in that direction. Nothing that could be done would prove more potent in the way of taking care of the forests than the advance in the price of its products.

The belief is general that with the growing high prices scientists will endeavor to find some substitute for naval stores that will serve to cheapen or at least retard its upward march.

The use of cups, instead of cutting deep boxes into the trees, will be more common from now on. They are getting in use more and more each year, and as they are now easily procurable, it is certain that their installation will become the rule instead of the exception.

The fortunes that have been piled up in the manufacture and handling of naval stores are quite numerous. The largest made so far in the business has probably been acquired by Mr. Spencer P. Shotter, who is the dominant owner of the American Naval Stores Co., which has offices and agencies in every leading city in this country, Europe, Asia, Africa, Australia, as well as in the insular possessions of the

United States. His fortune is reckoned at something like $20,000,000. Mr. Shotter, who is a native of Canada, came to Savannah less than 30 years ago as a bookkeeper on a very meagre salary. He studied the marketing end of the business, with the result that his organization in naval stores is powerful.

Jesse P. Williams, formerly head of the naval stores factorage concern of J. P. Williams Company, made his fortune in the business. He is reckoned to be worth $5,000,000. He owns, among other properties, a railroad, the Georgia, Florida & Alabama, running from Columbus, Ga., to Carrabelle, Fla. Mr. Williams came to Savannah a poor man 30 years ago.

Mr. Lawrence McNeill, Mr. B. F. Bullard and the late Peter Peacock came to Savannah from North Carolina about the same time. They were poor in purse, but they had the brains, and their fortunes are reckoned in the hundreds of thousands. The late John W. Hunt made more than a million dollars in the business. He died about two months ago, leaving his fortune to establish and endow an orphanage in South Georgia, where he made his money.

Mr. J. A. G. Carson, who was brought up in the office of the J. P. Williams Company, and who organized the Carson Naval Stores Co., is reckoned to be worth several hundred thousand dollars, all of which was made in the business. Mr. Carson was born in Baltimore in 1865.

Of the operators, men who gave all their time to the business, the late John Morrison of Moultrie, Ga., who died a year ago, left an estate that is now estimated to be worth $1,000,000.

W. C. Vereen, another operator, who lives at Moultrie, is worth several hundred thousand dollars, all of which was made in manufacturing naval stores or in the enhancement of lands that were purchased for turpentine purposes. Very much of the money made has been from this source.

J. W. Callahan of Bainbridge, Ga.; Albert Pidgeon of Pensacola, Fla.; Gus Alford of Chipley, Fla.; the late A. Sessoms of Waycross, Ga.; F. B. Sirmans of Sirmans, Ga.; H. J. Peagler of Homerville, Ga.; J. B. Way of Thomasville and scores of others 20 years ago had little or nothing. All today are reputed to be worth well into the range of the half-million-dollar line. The story of the success of others like these few named could be spun out indefinitely.

There are two others, however, who deserve especial mention. One is Ogden J. Olmstead of Taylor's Creek, Ga. He ran away from his home in New York State when a lad and came to Georgia. This was 35 years ago. He had rather a hard row to hoe, but he hoed it. His first venture was made when he was 16, when he bought on credit a small ox, cart and plow. He tilled a few acres of land for foodstuff for his beast, and when not thus engaged worked in the "gum," to use the vernacular. He did his own chipping and dipping and hauling to market, where he received about $1.50 per barrel for his product (now worth about $8). He soon enlarged his operations, and today he owns about 25,000 acres of land in Liberty county, Georgia, and about 75 acres in Florida. The other is W. C. Townsend, who went from Liberty county to Florida 18 years ago. Mr. Townsend had been fairly successful in Georgia, but when he got into Florida he struck his gait, for he is now worth at least $500,000.

Savannah, Ga., March 24.

Public works representing $340,000 are under way and $220,000 worth of similar work is soon to be contracted for in Muskogee, Okla., according to the statements in an attractive folder issued by the Commercial Club of that city.

MILLIONS FOR IMPROVEMENTS.

Results in New Orleans Drainage, Sewerage and Water Service.

[Special Cor. Manufacturers Record.]

New Orleans, La., March 27.

A $7,000,000 bond issue to extend the city drainage, sewer and water service is in contemplation here. Out of an authorized $8,000,000 issue, $1,000,000 worth were sold some time since. Bids for the entire remaining amount were invited a year ago, but informalities in the bids prevented the acceptance of any of them. At this time there has just been filed with Mayor Martin Behrman a proposition by Mr. Lynn H. Dinkins, president of the Interstate Trust & Banking Co. of New Orleans, to pay 94 for the entire issue, coupled with the agreement to give the city 1 per cent. interest on deposits of city funds. It is required by law that the bond issue be advertised and bids invited before an allotment is made. This will probably be done in the near future. If a better offer than that made by Mr. Dinkins is received the sale would doubtless be made to the highest and best bidder, but the bid of Mr. Dinkins at least assures the sale of the bonds and brings in sight the possibilities of completing work of the greatest importance to the welfare of the city of New Orleans. With funds on hand, and with revenues available during the next five years, the proceeds from the sale of the bond issue involved would enable the city to complete its systems of waterworks, drainage and sewers and put the city in these respects in better shape than almost any other city in the country.

Up to date about $20,000,000 has been spent on these systems—$8,500,000 on water-works, plant, mains, connections and meters, $6,500,000 on drainage and $5,000,000 on sewers. The drainage system was begun in 1896, sewerage system in 1903 and water-works system in 1905. The drainage system went into operation in 1900, the sewerage system in 1906 and the water-works system in 1909. The water-works plant is one of the most up to date in the country, and right now has a capacity equal to the requirements of a city of 600,000 population.

The drainage system has wrought a transformation in conditions in New Orleans, having lowered the water table from four to six feet throughout the city, and making it possible for the first time to have cellars and basements in this city. Centrifugal pumps, in striking comparison with the undershot wheel of a few years ago, make it possible to free the streets of the heaviest rainfall within a few hours, whereas in former times it might be days or weeks before a heavy rainfall could be taken care of. On occasion New Orleans is visited with heavy rains. Thus on March 22 this year there was an average rainfall of 4.55 inches throughout the city within three hours. While there was temporary inconvenience caused by the flooding of the streets, the flood was handled within two to four hours, with practically no damage or loss to property. It happened that a number of engineers from other cities, including Washington, D. C., were in New Orleans at the time, and they all expressed their unbounded admiration of the efficiency of the New Orleans system. Not one of them felt justified in claiming that a similar downpour could have been handled with such efficiency in the city from which they came.

The funds which it is now sought to secure will be used to round out and perfect the service for all of the inhabited area of New Orleans. With the proceeds from the sale of the bonds and the surplus that would be available for construction purposes, it is estimated that during the next five years there would be a fund of $8,500,000. It is proposed that $5,500,000 of this shall be spent for additional drainage canals, pumping plants and additional power. There would be additional steam turbines and generators of 5000 to 6000 kilowatts. The estimate for sewerage construction is $950,000; for water-works construction, $200,000, and for connections to water mains and sewers to the property line and for water meters, $1,850,000. It is an interestig fact, by the way, that sewer and water connections are made by the city, and every water consumer is metered by the city without charge.

All the work is being done by the city under the Sewerage and Water Board, and in accordance with the custom it is the expectation that machinery for additional pumping plants will be built on plans to be worked out by the department, so that there will be no general bids for the work as a whole.

In this connection it is interesting to note that the boast is made that every dollar so far expended has counted, the work has been efficient and absolutely free from scandal.

ALBERT PHENIS.

THE APPALACHIAN RESERVE.

Areas Affected in the South and in New England.

The Department of Agriculture announces, through a circular which is just coming from the press, that it is ready to begin operations looking to the purchase of land by the National Forest Reservation Commission created under the Weeks law. This law was passed with special reference to the creation of national forests in the Appalachian and White Mountains. Under it the Secretary of Agriculture is to examine, locate and recommend to the commission for purchase such lands as in his judgment may be necesary for regulating the flow of navigable streams.

The law is not restricted to particular regions, except that lands may be bought only in the States whose legislatures have consented to the acquisition of land by the United States for the purpose of preserving the navigability of streams. The States which have already taken the necessary action are Maine, New Hampshire, Maryland, Virginia, West Virginia, North Carolina, Tennessee, South Carolina and Georgia.

The first lands to be examined for purchase will be in the Appalachian and White Mountains, which, because of their altitude, steepness and lack of protection, are in a class by themselves. The area which is believed to need protection is much larger than the Government can purchase. Much difference exists, however, between different parts of the region. Careful examinations, which have been going on for the last 10 years, have proved that the conditions which affect stream flow to an extreme extent are to be found in relatively limited areas, which are scattered more or less widely. By careful selection it is believed that much can be done for the permanent improvement of the watersheds with the purchase of a relatively small part of the land. The kinds of land which will be considered for purchase, if they lie within the designated areas, are set forth by the circular as follows:

Timbered lands may be bought either with the timber standing on them or with reservation by the owner of the right to cut the timber under certain rules to provide for perpetuation of the forest. These rules will form a part of the agreement for the purchase of the land. Since, however, the Government cannot pay high prices, it is not regarded as probable that much land bearing a heavy stand of merchantable timber can be bought. Culled and cut-over lands may be bought, as well as land covered with brush, which is useful for watershed protection; burned land and abandoned farm land, whether cleared or partially or wholly covered by young timber growth. Good agricultural lands will not be considered. Owners may reserve the right to remove valuable mineral deposits which are known to exist.

Proposals will be received for small as well as for large tracts, although small tracts can be examined only where the purchase of a considerable total of land in the same neighborhood is under consideration. With regard to the price which can be paid, Secretary Wilson indicates that the policy of the commission will be to make the money available go as far as possible. "For the most part," he says, "we shall have to buy cut-over lands or lands without much merchantable timber. I want to make it plain at the start that I shall recommend this class of land only when it is offered very cheap. Proffers of land at exorbitant prices will not be considered. I am frank to say that I hope to see a great deal of public spirit manifested by landowners. I expect some lands to be offered at merely nominal prices in order to aid the Government in getting well started upon this wise and necessary policy.

"The lands acquired by the Government will be held as national forests. They will be protected from fire, and the growth of the timber will be improved as much as possible. The lands will not be game preserves, but will continue to be open to the public for hunting and fishing in accordance with the laws of the State in which they are situated. All their resources will be available for the public under reasonable conditions. Another point which I wish to emphasize is that we are not going to take from people their homes in order to put the lands into national forests."

The areas within which offers of land are desired are set forth in detail in the circular of the Forest Service. The approximate location of these areas is as follows, although Secretary Wilson warns those wishing to offer land that they should first secure the circular in order to see whether their holdings fall within the more detailed areas therein indicated:

In New Hampshire, lands in the White Mountain region.

In Maine, lands in a portion of Batchelder's Grant, in Oxford county.

In Maryland, a portoon of the western part of Garrett county.

In Virginia, parts of Shenandoah, Rockingham, southwestern Warren, western Page, northern Bedford, eastern Botetourt, southern Rockbridge, southern Washington, Smyth and Wythe counties, and western Grayson county.

In West Virginia, parts of Pendleton, Hardy, Randolph and Pocahontas counties.

In Tennessee, parts of northeastern Johnson county, Cocke, Sevier, Blount and Monroe counties.

In North Carolina, parts of Wilkes, Caldwell, Wautauga, Buncombe, Yancey, McDowell, southwestern Mitchell, Haywood, Swain, Jackson, Henderson, Transylvania, Macon, Clay, Cherokee and Graham counties.

In South Carolina, a part of Oconee county.

In Georgia, parts of Rabun, Habersham and White counties.

So vigorous and wise have the city authorities of Chattanooga, Tenn., been in street improvement that in the past 25 years they have completed 36 miles of well-paved streets, have a large amount of like work now in progress, with a number of districts in which paving is planned.

Development of Roanoke and Its Vicinity.

[Special Correspondence Manufacturers Record.]

Roanoke, Va., March 20.

While there is nothing sensational in the present stage of Roanoke's development, there is at the same time a degree of activity in building and other lines which indicates a most substantial substrata on which foundations for development of a most important kind are being built. All sorts of business and residence buildings are under way or in contemplation; there is a considerable degree of municipal activity in the way of public buildings, streets and sewers contracted for or to be under contract soon, and there are numerous other developments which indicate a degree of activity in the Roanoke district somewhat surprising to those who have not kept in close touch with what is being done and in prospect in this vicinity. There are several hundred thousand dollars' worth of new buildings, street improvements, etc., on hand right now, with more than $500,000 of similar improvements in immediate prospect. There are a number of industrial developments being made which are of more than ordinary importance. There are railway projects on foot, and there are water-power developments of the greatest interest and of notable magnitude, compared even with what is being done in water-power development elsewhere in the South.

Previous to 1880 Roanoke was not much of an entity, it hardly having emerged from the Big Lick stage, the name by which this locality was formerly known. Between 1880 and 1890 there was a phenomenal growth here, the population in 1890 showing the remarkable total of 16,000. While the growth from 1890 to 1910 has not been so phenomenal, the last census showing 34,875, it is to be considered that the city boundaries have not been increased since the census of 20 years ago, the limits at that time and now being only five and one-half square miles. The immediate suburbs belonging to Roanoke will show at least 10,000 additional people. A movement is on foot to annex this territory, which will give Roanoke credit for a growth which is rightfully hers, and which will place the city well-nigh within the 50,000 class. With the impetus which has been given to the development of Roanoke within the recent past, and with the annexation of such territories as rightfully belong to Roanoke, the census of 1920 should show a population of well-nigh 75,000. Many of the people of Roanoke believe this figure will easily be reached.

In detail a number of recent and prospective developments are chronicled.

It is perhaps of leading significance that the city of Roanoke has recently voted an issue of $400,000 bonds to purchase a tract of seven and one-half acres within two blocks of the center of Roanoke for park purposes, and at the same time to provide for a new municipal building. These projects were voted on separately, but each carried by a very large majority, the park project by a vote of four to one and the public building site by a vote of about six to one.

There are already numerous parks within the city limits of Roanoke, and the recent acquisition of the Terry property will round out and balance the geographical location of these parks. The Terry Park is the closest in and one of the most picturesque, and in the treatment of the landscape effects will provide opportunities for a very beautiful picture. It is proposed to construct on the sightly elevation, where the present Terry homestead is, a municipal building containing an ample auditorium, public library, etc. There will be constructed on the site of the present city hall a magnificent fireproof building six or seven stories in height, which will be an example of the most modern up-to-date municipal construction.

There are numerous office and other public buildings in contemplation here. There are a number of residences under way and in contemplation. There are industrial developments going on in the way that counts, to wit: Investment to the entire extent in the capital of the companies by local people. There are numerous water-power development projects under way, and there is an activity in railroad construction proposed and under way which in the aggregate means much for the development of Roanoke within the next succeeding years.

Some of the buildings recently completed here include the seven-story bank and office building of the First National Bank, which cost $260,000; the new Federal building, nearing completion, three stories high, of concrete construction and terra-cotta trimmings, cost $200,000; the Anchor Building, for offices and stores, 95x120 feet, built by the Roanoke Gas & Water Co., moved into March 4, three stories high, with construction such that four stories more may be built on later. The cost of the present structure was $130,000. It is of concrete construction, terra-cotta trimmings and pressed-brick exterior, fireproof throughout, as are each of the three previously-named buildings.

Fifty-thousand-dollar addition to the Shenandoah Hotel has just been completed, adding 58 rooms, restaurant, stores and a grillroom.

The Roanoke Hardwood Flooring Co., a new enterprise, is completing its plant in Norwich across Roanoke River west of Roanoke, at a cost of $15,000. It is expected to start operations some time before April 15.

The Roanoke Overalls Factory Co. will start operations April 1 in its new two-story building, 63x197 feet, which is said to be one of the most complete modern factory buildings in the country. Overalls and shirts will be manufactured, the institution starting with 75 to 100 hands at the beginning, with the expectation that it will be added to. E. G. Sanders, formerly of Indianapolis, has been engaged as manager. This is a brand-new enterprise, promoted by Cassel & Elliot, and, as in the case of all three previously-mentioned manufacturing companies, the capital is entirely local to Roanoke.

The fact that a number of new industries have recently been promoted by local capital is one of the most promising signs indicating the healthy growth of Roanoke as an industrial center.

The Blue Ridge Overalls Co., which has been operating successfully here for some years, now employing about 250 people, has arranged for the installation of 30 additional machines, which will bring the number of employes necessary up to at least 300.

The Blue Ridge Packing Co., heretofore known as Blue Ridge Lard Co., which has been rendering lard in a small way, has branched out as the Blue Ridge Packing Co., and will include sausage and other meats to its products. It is an interesting fact as pointing out the possibilities of developments in this line here, as elsewhere, that this company has been purchasing pork from local farmers, as well as packers, and that in trying out lard it has found a market for the cracklings. There are possibilities of all kinds of developments in just such enterprises as this.

The Roanoke Bridge Co. is making an interesting development here, and one that, in connection with the long and thoroughly established and widely recognized Virginia Bridge & Iron Co.'s operations, will add to the position of Roanoke as an important center for the bridge business. The Roanoke Bridge Co. has been in business here for five or six years, but until last fall operated under contract with other companies for its iron and steel. A few months ago contracts with these companies were cancelled, and the construction of a building of its own was arranged for. The main building is to be 135x60 feet, with a provision for a girder shop 50x135 feet, to be built later. It will have a capacity of 400 tons a month. Power will be supplied by a 50-horse-power De la Vergne oil engine. This enterprise is backed exclusively by local capital.

The Virginian Railway has just completed roundhouse and shops in Roanoke at an expense of $50,000. An enlargement of the present accommodations is expected later on.

Plans are being prepared for the new bank building of the National Exchange Bank. It is to be a one-story fireproof structure for the exclusive use of the bank, on a lot 50x100 feet in the business center of Roanoke. It is proposed to spend $150,000 on the building, which will be entirely fireproof and of the most modern construction. Owing to the difficulty in securing possession on account of leaseholds, it is not certain that work of construction will be commenced before the spring of 1912.

The Ponce de Leon Hotel is to have a seven-story fireproof addition, which will cost $200,000. Definite plans for this improvement have been perfected, and work on the building is expected to begin within a few months.

The Consolidated Tramway Co., which will make tramways under the Lawson patents, is constructing a building 54x200 feet. The products of this company will be sold throughout the world. Operating under contract with other plants for manufacture of equipment with Lawson tramways, they have already been sold in Mexico and remote parts of the United States.

The Norfolk & Western Railway Co. has just completed a motive power office building of steel and concrete construction, with iron stairs and other features, making it absolutely fireproof. It is 53x95 feet, three stories high, with attic and basement, pressed-brick exterior and slate roof. A wrought-iron balcony extends from the second story over the main entrance to the building on Shenandoah avenue, forming a pleasing architectural feature. The building was designed in the office of the architects of the Norfolk & Western Railway Co., and was built by contract. The building is occupied by offices of the motive power superintendents, car inspectors, etc. On the third floor are the offices of the mechanical engineer, which include drafting-room 30x94 feet in dimension, the largest in the South. Each floor has a fireproof vault 18x24. The roof is supported by iron beams, with concrete roof slabs.

The Norfolk & Western Railway Co. has also just completed a new power-house, located in the Roanoke yards, 74x104 feet, brick exterior, slate roof, steel and concrete construction. There is a large monitor on the roof for light and ventilation. The purpose of this improvement is to furnish power and light for the entire shops of the Norfolk & Western Railway Co. here. Equipment has been purchased, and is being moved in.

The water-power development around Roanoke is one of the interesting features of the situation, and provides a vitally suggestive element as to the probable industrial development of this section. There has already been developed by the Roanoke Railway & Electric Co. at a point two miles from the center of Roanoke about 7000 horse-power by a damming of the Roanoke River. The same company operates an auxiliary steam plant in the city, so that it has a total horse-power at its disposal of about 10,000 horse-power. It is proposed to add 3000 horse-power to the steam plant. The same company has water-power rights on the James River, and proposes to construct a plant which will develop about 25,000 horse-power. This proposed site is about 20 miles from Roanoke. Other local interests have rights for a plant on Catawba River, about 15 miles distant, where it is proposed to develop from 30,000 to 35,000 horse-power.

The New River Power Co., with New York and Chicago capitalists, in addition to some Virginia interests, proposes the development of about 45,000 horse-power on New River, about 60 miles from Roanoke. According to the plans of this ambitious scheme, power will be transmitted by high-tension lines throughout the coal fields, and also to Roanoke, Bristol and Bluefield. Eventually the plans would contemplate four plants, with an aggregate of 100,000 horse-power. The company has an authorized capital of $5,000,000.

Railroad projects include a line now being built by the Norfolk & Western from Cloverdale, seven miles from Roanoke, to the Catawba iron and coal properties, where interesting developments are under way. The Catawba mines are 17 miles from Cloverdale.

The completion of the Southbound Railroad, connecting Roanoke with Wadesboro, S. C., which line was completed in November, and which has just been opened for freight and passenger business, is considered to be one of the most important connecting links between the older systems of the country which has been constructed in recent years. It will connect Chicago and the Southeast in a way that is expected to be of distinct advantage to those sections and to the country that lies between them.

The Virginia & North Carolina Railroad, while only 10 miles long, is yet an important connecting link. It is being built from Ridgeway, Va., a point on the Roanoke & Southern, running between Roanoke and Winston-Salem, N. C., to Spray, N. C. At Spray there is a great cotton mill manufacturing development, an interest in which has recently been acquired by Marshal Field of Chicago. The construction of this 10-mile connecting line will put Spray in direct connection with Chicago.

A movement is on foot to run a road from Roanoke to Mt. Airy, N. C. Roanoke capital is taking an interest in this project, and it is reported that Mt. Airy also is interested. The road would run through Floyd and Patrick counties, and would open up a territory of good agricultural lands, as well as timber lands, and deposits of iron, copper, kaolin, asbestos, graphite, etc. There is no road in Floyd county at present, while there is a vast acreage there of good agricultural and other lands. The construction of this road would unquestionably be of great advantage to a large section of this country.

Good roads building is receiving attention of people here as never before. Last year a six-mile road was completed from here to Botetourt county, which connects Roanoke with the proposed national highway from New York to Atlanta. It gave such a demonstration of value and benefit of good roads that a great impetus has been given to good roads construction. This road was built by private subscrip-

tions, and was built by convicts with State aid. As soon as completed the force was transferred to the Williamson road, leading north from Roanoke about three miles, and connecting with the Hagerstown and Bristol pike, which runs up the Shenandoah Valley.

There is now under way the construction of a road from Roanoke to Salem, which will be through the best residence sections of Roanoke, and with a line of about six miles of a rich section of farming land, which will be opened up which heretofore had access only by a roundabout way nearly twice as long as the proposed road, and over an ordinary dirt road not in good condition anywhere near all of the time. All of these roads have been built by private subscription. There is a strong sentiment in favor of a bond issue of from $300,000 to $500,000 for the beginning of regular county system of good roads.

Another notable development of this section is the interest of outside syndicates in the fruit lands of the Shenandoah Valley. A Pittsburg syndicate has just closed negotiations for the purchase of 10,000 acres of land 10 miles from Roanoke, known as the Fort Lewis tract. It is proposed to develop about half of the tract into small orchards, planting apple trees and colonizing it with fruit-growers from the outside. The proposition is to spend about $100,000 immediately in the development of this tract.

There is a notable development in the entire Shenandoah Valley in apple-orchard lands, and inquiries from outside sources are being constantly received, the favorite proposition being for the purchase, subdivision and development of orchard lands.

Of great advantage in the development of Roanoke and vicinity is the wide-awake Chamber of Commerce. It seems to be entirely proper to give this organization credit for working up the public sentiment in favor of the recent $400,000 bond issue. The committee working agitation changed what had been apathy or opposition, especially in case of the purchase of the Terry tract, to overwhelming sentiment in favor of the improvements. The president of the Chamber of Commerce this year is Mr. C. Edwin Michael, who is the president of the Virginia Bridge & Iron Co. Under his energetic auspices a plan for energetic, practical field work for 1911 has been carefully mapped out to be immediately in the hands of the president and of the executive committee, composed of Messrs. Edward L. Stone, R. H. Angell, J. H. Marsteller, Taylor Gleaves, H. C. Elliott and W. L. Shafer. These gentlemen are heads of six grand departments of work, dealing with advertising, meetings, health and sanitation, parks and public buildings, education, new enterprises, factory sites, manufactures, fire protection and insurance, real estate and building, traffic bureau, public utilities, telephone and telegraph, good roads, streets and highways, wholesale trade, retail trade, finance and banking, legislation and taxes, membership, visitors, conventions and fairs and expositions, each of which is in charge of a special committee. Mr. W. L. Shafer, secretary, announces the determination of the organization to run the membership up to 1000 within the present year. The membership at this time is about 600.

Roanoke's deevlopment gives promise of being a many-sided one. The climate, scenery and hygienic water are sufficient to attract a considerable health-seeking population.

There are industrial opportunities here of various kinds; there are horticultural and agricultural possibilities sufficiently attractive to induce an extensive population on that account alone, and the pleasure of being in the Old Dominion, so near the social, commercial and financial centers of the country is an additional attraction, which, taken with all other features favorable to Roanoke as a place of residence and business operations, should combine to give to Roanoke a population of prosperous and happy people several times greater than the population of today.

ALBERT PHENIS.

STUDY SOUTHERN WATER-POWER

Experts from Sweden Visit North Carolina Developments.

[Special Cor. Manufacturers Record.]

Charlotte, N. C., March 25.

It is a rather striking fact that when the Government of Sweden contemplates the expansion of its hydro-electric development it should send its most eminent engineers to America to study the progress of the hydro-electric development in this country, and a still more significant fact is that these engineers were referred by prominent New York experts to the South as possessing water-power developments of unusual size and up-to-dateness.

The Swedish Government already has a development of 40,000 horse-power, and is operating at 50,000 volts, over steel tower lines, delivering power to operate car systems, lighting and industrial power work.

It is the scheme of the Government to increase this development to 300,000 horse-power, but before doing so selected Mr. TorstenFson Holmgren, general manager of the Royal Trollhattan Power System, Trollhattan, Sweden; Knut W. Bildt, mechanical and electrical engineer for the Luossavaara-Khrunavaara Mining Co., Kiruna, Sweden, and Fredrik-Jonsen Luttnant via Kungl, Vag-ach-Vattenbyggnadskaren, Stockholm, to visit America and see the advancement in hydro-electric work in this country.

Accompanied by Mr. J. W. Fraser, assistant chief engineer of the Southern Power Co., they visited a number of this company's developments and expressed surprise at the wonderful hydro-electric work in this section, especially to see so much 100,000-volt work and to find that it operated so successfully, as they were not up to this time fully satisfied that 100,000 volts was a practical commercial proposition. Being engineers of broad gauge, and not only specialists in their own line, but equally well posted in all engineering subjects, they were enabled in the fullest sense to appreciate the growth of the use and distribution of electricity for power work in the South, and as men of affairs they were very favorably impressed with the opportunity this section afforded for business, and expressed the belief that the South had a great future ahead and that its advantages were not overestimated.

J. LOUIS SPENCER.

Important Louisiana Land Reclamation.

Some time ago the MANUFACTURERS RECORD referred to plans for reclaiming land in Assumption parish, Louisiana This development has begun, and is mentioned by a dispatch from Morgan City, La., as follows: "One of the largest reclamation projects in Louisiana is now actively under way. The Bowers Southern Dredging Co. of Galveston commenced dredging on Avoca Island for the Morgan City Land Co., a purely local enterprise officered by Eugene A. Pharr as president, H. B. Hewes vice-president and Maurice E. Norman secretary and treasurer. There are several other local stockholders. The company is capitalized at $300,000, all paid in, and it owns outright the wet land of Avoca and Batemans Island, a total of 14,000 acres, which have been pronounced by authorities as among the best lands of this character in Louisiana, as well as the easiest to reclaim. A regular drainage district has been formed under the new drainage act of Louisiana and the bond issue will be announced shortly.

"The island of Avoca will be the first to be reclaimed, when the Bowers Southern Dredging Co. will augment the dredging force to four modern dredges and the work pushed to early completion. A mechanical enginer has looked over the grounds preparatory to the installation of a modern pumping plant, and in all probability some of the reclaimed lands will be ready for cultivation before the end of the present year. When this is completed and sold into small tracts it will fill a long-felt want in this section, the locality being within two miles of Morgan City, and as a result this city will get the full benefit of the development. The surveying of this work was done by Mr. Warren B. Reed of New Orleans."

SUPPLY AND MACHINERY DEALERS

Joint Convention of Three Bodies Next Month at Louisville.

Louisville, Ky., is preparing for the triple joint convention in that city April 3-5 of the Southern Supply and Machinery Dealers' Association, the National Supply and Machinery Dealers' Association and the American Supply and Machinery Manufacturers' Association, representing in the aggregate a membership of about 500 individuals and firms in all parts of the country. Governor Augustus E. Willson of Kentucky, Mayor W. O. Head of Louisville and Mr. William Heyburn, representing the business interests of the city, will welcome the convention, and responses will be made by Mr. H. C. Clark of Birmingham, Ala.; Edward C. Hinman of Battle Creek, Mich., and W. M. Pattison of Cleveland, O. Among the addresses to be made are: "The Proper Method of Compensating Traveling Salesmen," by E. Howard Smith of the Superior Supply Co., Bluefield, W. Va., and "The Cost of Doing Business and the Proper Method of Handling Expense Items," by W. P. Simpson of the C. P. Pattison Company, Ltd., New Orleans, La. Topics for discussion include the business outlook, cost of doing business, manufacturers' competition, dealing with illegitimate competition, rebates for decline in price on stock on hand at time of decline, and unintelligent competition. For the enjoyment of the visitors have been arranged vaudeville, reception, luncheon, automobile trip, river outing and an excursion to Mammoth Cave. The general officers of the association are:

Southern Supply and Machinery Dealers' Association—President, H. C. Clark, Charlotte Supply Co., Birmingham, Ala.; first vice-president, R. B. Lebby, Bailey-Lebby Company, Charleston, S. C.; second vice-president, W. G. Thomas, Pidgeon-Thomas Iron Co., Memphis, Tenn.; secretary-treasurer, Alvin M. Smith, Smith-Courtney Company, Richmond, Va.

National Supply & Machinery Dealers' Association—President, Wallace M. Pattison, the W. M. Pattison Supply Co., Cleveland, O.; first vice-president, W. L. Rodgers, the Pittsburg Gage & Supply Co., Pittsburg, Pa.; second vice-president, J. O. Harron, Harron, Rickard & McCone, San Francisco, Cal.; advisory secretary-treasurer, T. James Fernley, Philadelphia, Pa., and secretary-treasurer, Thomas A. Fernley, Philadelphia, Pa.

American Supply and Machinery Manufacturers' Association—President, S. P. Browning, the Ohio Valley Pulley Works, Inc., Maysville, Ky.; first vice-president, Henry B. Lupton, Oliver Iron & Steel Co., Pittsburg, Pa.; second vice-president, D. K. Swartwout, the Ohio Blower Co., Cleveland, O.; third vice-president, J. H. Cobb, New York Belting & Packing Co., Ltd.; secretary-treasurer, F. D. Mitchell, 309 Broadway, New York, N. Y.

Tractors for Farm Work.

The problem of making the earth yield an increase adequate to supply the needs of the population will be considered on Tuesday, April 11, at a meeting of the American Society of Mechanical Engineers, in the Engineering Societies Building, New York, when a paper upon the "Economic Importance of the Farm Tractor," by L. W. Ellis of La Porte, Ind., will be presented. Mr. Ellis, who is a traction plowing specialist, believes the farm tractor to be the solution of the immediate problem of providing for deeper plowing and better tillage. With the cost of feed alone aggregating for the 25,000,000 animals required for the present rate of production, $1,250,000,000 a year, a sum equal to the income of 2,000,000 average families, it is evident that increased production cannot for practical reasons depend upon animal power. The tractor fits easily into the present farm scheme, and solves many problems. It raises others, and is almost certain to lead to the organization of the farm on a larger and more economical basis. Capital and brains are now concerned with the problem of cheaper production. Thus far agricultural machinery has been developed with primary reference to the character of the power used, and the engineer has had little to do with the design, but the author believes there is a field for the mechanical or agricultural engineer in the rehabilitation of farm machinery, the development of farm motors and on the large farm itself in the installation and superintendence of machinery and power.

For a quarter of a century mechanical power has taken the place of animal labor for operating stationary machinery on the farm, and the farm field, the last and greatest stronghold of the horse, is now being invaded by the tractor. Its advantages lie in the fact that it does not age nor deteriorate when idle, and that it requires neither fuel nor attendance except when in use. The horse is capable of little further improvement in economy, but the actual refinement of the tractor has scarcely begun. Tractors are now used for plowing, disking, seeding, harrowing, summer fallowing, back-setting, harvesting, threshing and hauling, besides such jobs as running clover hullers, huskers and shredders, sawmills and the like. The steam and internal-combustion types seem equally popular, adapted as they are to different types of farms. Mr. Ellis gives the results of a number of tests made to discover the coal and water and gasoline consumption of tractors, their thermal and tractive efficiency, their capacity and the comparative cost of production and operation, all of which leave no doubt of the relative economy and superior results of mechanical power.

Austell Power Co.

Another water-power-electrical enterprise for the Atlanta territory is announced. It is the Austell Power Co., which has been chartered at Atlanta with a capital stock of $1,000,000 by Messrs. C. C. Bruckner and George W. Mason of Atlanta and George E. Zimmerman of New York. Details of plant have not been announced.

Plans are being discussed for establishing as a great auto highway a route following the line of the Old Santa Fe trail, once connecting St. Louis and the Southwest.

Undeveloped Resources of a Mississippi River.

[Special Correspondence Manufacturers Record.]

Pascagoula, Miss., March 17.

A few days ago Mr. J. J. Marthaler, a merchant of Pecan, Miss., invited the writer to take a motor-boat cruise up the Escatawpa River for the purpose of showing him the neglected possibilities of the upper stretches of that river for water-power and the undeveloped resources of hardwood for furniture, boxes, etc. Pecan is a village on the Louisville & Nashville Railroad about 10 miles northeast of Pascagoula, and some 3½ miles south of the Escatawpa River. We reached Pecan on train No. 6, and a sharp drive brought us to boathouse that stood at the bottom of a steep bluff. The river here is about 250 feet wide, and deep enough to float a battleship, a depth it has almost uniformly until it debouches into the Pascagoula River at Moss Point, some 15 miles away.

Our boat was a gasoline motor-boat that was capable of carrying five people, and the party consisted of Mr. Marthaler, the writer and his son, and Mr. W. D. Batton, a son of the Bishop of Mississippi. We headed directly up the stream, and made about 10 miles an hour against swiftly-flowing current.

The banks of the river on the west side are low-lying swamps, filled with an inexhaustible supply of water oak, black gum, holly, sweet gum, juniper and other wood that is suitable for the manufacture of crates, boxes and certain grades of cheap furniture. There is enough raw material in these swamps to keep several large factories busy. The east banks of the river are mostly bluffs from 15 to 20 feet in height, that make ideal sites for fishing or hunting clubs. The Escatawpa River abounds in black bass and other game fish.

A short distance from our starting point we passed Farragut's Bluff, named after a nephew of the admiral who lives there. At the foot of this bluff lies the wreck of the steamer Countess, that was sunk there in 1864, in order "to keep her out of the hands of the Yankees." At the time of her sinking the Countess was loaded with turpentine and resin, not a trace of which can now be seen. I judged that the boat must have been at least 100 feet long, as what is now left of the wreck is that long. She lies there a mute witness to the fact that the Escatawpa is capable of steamboat navigation, and was once so used.

Some miles up the river we met a snagboat that was busy raising "sinkers" out of the river. Sinkers are saw logs that during their passage down the river have been lost, and, becoming water-logged, have sunk to the bottom of the stream, where most of them have been lying for a generation or more. The snagboat is a flat-bottom boat of about 60 feet in length, fitted up with a windlass and chain cable. A grappling hook is let down to the bottom of the river, and when it has become fast to a sinker it is drawn up by the windlass, worked by a gasoline engine. The snagboat carries along with her a large number of pontoons, and between two pontoons are fastened by wire some 15 or 20 sinkers, and then they are by the boat running under its own power towed down to the mills at Moss Point, where they are made into merchantable lumber. Prior to the great storm of 1906 the man who had been bold enough to suggest the raising of sinkers to supply the mills with logs would have been immediately looked up as a dangerous lunatic, but today the raising of sinkers is a profitable industry, as there are untold millions of feet of saw logs lying at the bottom of the rivers down which the logs were once floated. After passing the snagboat we met a man with a raft of crosstics, upon which was seated a small boy of about 10 years of age, who seemed to enjoy his novel journey. The immense amount of timber that was prostrated by the great storm of five years ago is being converted by enterprising men into crosstics, which are floated in rafts down the river to the port of Pascagoula, where they are reloaded on steamers and shipped to all parts of the world, some of them going to South Africa for the Cape to Cairo railroad.

At various places along our course we came to large deposits of white sand that seemed to be gypsum, being white and shining like alabaster. This sand does not seem to have washed down from the neighboring hills, but seems to have been deposited by the waters of the river during the times of a freshet. It must have come from some rich deposit of it near the source of the river.

At length we came to "The Narrows," but which are more deserving of the name of "The Rapids," for here the river for several miles roars and plunges down a steep and narrow passage and with a current so strong that our boat had all it could do to make headway against it. I estimated the current at 10 miles an hour, and it seems that the water would in places fall six inches at a time.

"Here," said Mr. Marthaler, "are countless thousands of horse-power going to waste, which if harnessed up would turn turbines and dynamos and furnish electrical power for Mobile and Pascagoula, besides the numerous factories that could be erected nearby. The large hills on either side of the stretm make the damming of this river an easy thing."

I agreed with him that here was an immense amount of power going to waste, and told him that some day some shrewd "Yankee" would seize the opportunity here awaiting the right man by developing its resources, transform a wilderness into a garden and a desert into an habitation for man. Mobile is only about 20 miles distance from these rapids, and Pascagoula about 30 miles away.

After passing the rapids we came to the mouth of Jackson Creek, a stream that flows into the Escatawpa from Alabama, which is only a mile or two away. Here we found an illustration of what modern science and industry do for man. A raftsman had a small gasoline launch, with which he was busy gathering up the saw logs that came down the river and out of Jackson Creek, and making them into rafts of convenient length for towing to the mills at Moss Point. A few years ago, before the invention of the gasoline motor, this work was done by men, who had to use oars in moving from place to place, which in the strong currents of the river was no little labor and loss of time.

Though we could have ascended some 15 or 20 miles more of the Escatawpa River, our time was limited and we headed down stream, reaching our landing in time for us to reach the depot at Pecan just as train No. 5 hove into sight. Our trip up the Escatawpa was to the writer at least a revelation, for there he saw for the first time the boundless resources of a country that were going to waste. An immense supply of timber suitable for boxing and furniture, the locations on the bank of the river that are suitable for clubhouses or farmhouses, and the immense sources of the upper river for generating electricity fairly dazzled his imagination.

CHAS. E. CHIDSEY.

BUILDING AT RALEIGH.

Operations Representing $1,300,000 Already Planned for This Year.

Chamber of Commerce,
Raleigh, N. C., March 27.

Raleigh, given by the last census a population of 19,218, is unquestionably doing as much building as any place of its size in the South. The new construction last year exceeded $1,000,000, and this year will go well beyond that figure. The new construction in 1911 embraces the following:

Addition to postoffice, $250,000; State building, facing capital square, $250,000; three banks, $200,000; three hotels, $200,000; Seaboard Air Line freight depot, $66,000; two dormitory wings and one animal industry building at the State Agricultural and Mechanical College, $60,000; dormitory at the Roman Catholic Orphanage, $15,000; Y. M. C. A. building $65,000; dormitory at the Confederate Soldiers' Home, $7500; poultry-house and stock building at State Fair grounds, $5000; car barn, 200x200 feet, for the Carolina Light & Power Co., $40,000; printing house for the Mutual Publishing Co., $30,000; agricultural implement and farm supply warehouse, $30,000; office building, $20,000; two stores, with offices above, $35,000; store improvements, $25,000; cottonseed warehouse, $5000.

The Carolina Light & Power Co. will expend much more money in improvements and will add largely to its car equipment as soon as the barn is finished. The people are to vote a little later upon a new market building, and yet other improvements are in course of consideration before summer comes. Contracts are being rapidly made for buildings above referred to, and some of the designs are extremely effective. Th municipal building and auditorium will be completed in 90 days, and will put Raleigh in the front rank in the State and in the South in this respect.

Plans are on the way for much street work during the year, the asphalt pavement laid last year being extremely satisfactory. The city owns granite quarries, and will open these at once for street uses. There is very great interest in the coming of so much more electric power here from Blewitt's Falls, on the Yadkin River, and the survey for the 100 miles of transmission line is well under way. Work is in progress on half a dozen buildings covered by the report of last year to the MANUFACTURERS RECORD as construction for 1910. There are indications of the early entry into the city of another railway line. There has never been such interest in development as at present, and people in all parts of the State are talking of the building activity and public spirit now being shown here.

FRED. A. OLDS,
Secretary.

INTO THE COAL FIELDS.

Completion of Railroad in the Kentucky Mountains.

[Special Cor. Manufacturers Record.]
Barbourville, Ky., March 27.

The most important coal-carrying railroad built into the Kentucky mountains for several years is completed and will be opened for traffic the first of April. This is the Wasioto & Black Mountain extension, beginning at Wasioto, on the Louisville & Nashville Railroad, and extending for 36 miles through the country tributary to the upper Cumberland River, terminating at Harlan, in the center of the Black Mountain coal fields.

This extension was originally started by T. J. Asher of Wasioto, who made millions out of the lumber industry in Southeastern Kentucky. It was later taken over by the Louisville & Nashville system, and will constitute the most important "feeder" of that system in the Kentucky mountains.

The new extension presented one of the most difficult engineering undertakings yet carried out in this section. Much of the roadway had to be blasted out of solid rock, and narrow mountain passes furnished the only method of bringing in building supplies. The course of the line follows the Cumberland River for a part of the way.

In the territory just opened for development many large development projects are being started. T. J. Asher, president of the Asher Coal Mining Co., was early in the field, and controls a large area of coal lands. His company has installed three large mining plants in the Black Mountain fields, and during the ensuing year will establish three more operations. In the vicinity of Harlan much activity is being shown in establishing mining plants, and before many months a large tonnage will come out over the new extension.

Harlan, which a year ago was a sleepy village of a few hundred inhabitants, has almost doubled in population, and many industrial undertakings are being conducted from that point.

A 30-mile extension from Harlan up the valley of Looney's Creek is now under construction, and will be completed by the end of the year. This line will mark a continuation of the Wasioto & Black Mountain Railroad, and will open for development many thousand acres of coking coal held by Northern and Eastern capitalists. Chief among these is the International Harvester Co., which, through its subsidiary, the Wisconsin Steel Co., owns 20,000 acres. The Wisconsin Steel Co. will open several mines and use the product for coking purposes. Analysis of the coal shows it to be the equal of any under development in this country for coking purposes, the Connellsville product not excepted.

The Louisville & Nashville system is now confining its activities to opening the Harlan county district, but is now engaged in another undertaking which will open an even larger area for development. The extension east from Jackson to Whitesburg, Letcher county, will be 96 miles in length, and will enter the counties of Perry and Letcher, in which millions of dollars have been invested in coal and timber properties. This extension will probably be extended into Virginia finally, connecting with the Louisville & Nashville system in that State. The Louisville & Nashville is pushing work all along the extension through Perry and Letcher, and hopes to have it complete and in operation within a year.

W. S. HUDSON.

Steel Rail Orders.

[Special Dispatch to Manufacturers Record.]
New York, March 29.

The Western Maryland Railway has placed an order with the Maryland Steel Co. for 4050 tons, and the George's Creek & Cumberland Railroad, a part of the Western Maryland system, has placed an additional order with the Bethlehem Steel Co. for 6500 tons. Orders from all other mills are light.

STEEL IN 1910.

Production of Ingots and Castings in This Country.

[Bulletin of the American Iron and Steel Association.]

The production of all kinds of steel ingots and castings in 1910 amounted to 26,094,919 tons, against 23,955,021 tons in 1909, an increase of 2,139,898 tons, or almost 9 per cent. The production in 1910 was the largest in the country's history.

The year of next largest production was 1909. Of the total production in 1910, 25,154,087 tons were ingots and 940,832 tons were castings, as compared with 23,298,779 tons of ingots and 656,242 tons of castings in 1909. The following table gives the production of all kinds of steel ingots and castings by processes in the last five years in gross tons:

Years. Gross tons.	Bessemer.	Open hearth.	Crucible and all other.	Total.
1910....	9,412,772	16,504,509	177,638	26,094,919
1909....	9,330,783	14,493,936	130,302	23,955,021
1908....	6,116,755	7,836,729	69,763	14,023,247
1907....	11,667,549	11,549,736	145,309	23,362,594
1906....	12,275,830	10,980,413	141,893	23,398,136

The following table gives the production of all kinds of steel ingots and castings since 1906:

Years. Gross tons.	Ingots.	Castings.	Total.
1910.....	25,154,087	940,832	26,094,919
1909.....	23,398,779	656,242	23,955,021
1908.....	13,677,027	346,220	14,023,247
1907.....	22,559,477	803,117	23,362,594
1906.....	22,624,431	773,705	23,398,136

American Fisheries.

To the total value of the products of American fisheries in 1908, amounting to about $54,000,000, according to the Census Bureau, Virginia contributed more than $4,700,000, Florida $3,389,000, Maryland $3,306,000 and North Carolina $1,776,000, those Southern States ranking second, fifth, sixth and eleventh, respectively, among the States of the Union in the value of their fishery products. Massachusetts ranked first, with more than $7,000,000; New York third, with $4,549,000; Washington fourth, with $3,513,000, and Maine seventh, with $3,257,000. The aggregate value of the products of the eight States mentioned was $31,590,000, or something more than 58 per cent. of the total for the country, representing an investment of $42,000,000 and the employment of 143,881 persons. In last week's issue of the MANUFACTURERSS RECORD were summarized the facts as to fisheries in Maryland and Virginia. The industry in Florida has some points of special interest because that State has the longest coast line of any State, and it has also certain monopolies, such as sponges, which had a value in 1908 of $545,000. Three-fourths of all the alligators killed in the United States were secured in Florida, and they produced 51,000 hides, valued at $48,000, and more than two-thirds of the otter skins of the country came from Florida, to the value of $21,000. Other products were mullet, to the value of $652,000; red-snapper, $434,000; shad, $320,000; oysters, $293,000; sea-trout, or squeteague, $196,000; alewives, amber-fish, angel-fish, black bass, bluefish, bream, catfish, crevalle, croaker, drum, grunts, hogfish, jew-fish, lady-fish, moon-fish, mutton-fish, pig-fish, pompano, pork-fish, sailors' choice, sheepshead, spot, crappie and yellow-tail.

Shad led in the value of North Carolina fisheries, the total catch of 3,942,000 pounds being worth $373,000, with oysters second, $236,000; squeteague third, $206,000; mullet fourth, $175,000, and alewives fifth, $140,000. Other products included menhaden, crabs, blue fish, Spanish mackerel, clams, black bass, striped bass, croakers, white perch, frogs, shrimp, terrapin and turtles, and included in the products are the skins of muskrats, minks and otter, and whalebone and whale oil.

Another Portland Cement Plant.

The increasing demand for Portland cement will be partially supplied by another Southern plant for manufacturing that material. This plant will be built about one and a half miles north of Aragon, Ga., by the Bald Mountain Portland Cement Co., which has been chartered with a capital stock of $1,000,000 and main offices at Rome, Ga. The incorporators are Messrs. J. L. Bass, J. N. King, B. T. Haynes, W. J. Griffin and E. A. Heard of Rome, M. M. Jack of Dalton, Ga.; S. W. Palmer of Millen, Ga., and E. C. Lester of Atlanta. They will develop the Bald Mountain property of 300 acres, which tract is claimed to have on its surface about 40,000,000 tons of limestone and 15,000,000 tons of shale.

Clinchfield Coal-Shipping Facilities.

Last week the MANUFACTURERS RECORD referred to plans for coaling facilities at Charleston, S. C., for the Clinchfield Coal Corporation shipments over the Carolina, Clinchfield & Ohio Railway. Mark W. Potter, president of the Clinchfield Coal Corporation, 24 Broad street, New York, sends the MANUFACTURERS RECORD a statement regarding the plan as follows:

"The Clinchfield Coal Corporation is installing a large storage yard at Bostic, N. C., Bostic being where we connect with the Seaboard Air Line Railway. The plan contemplates facilities for the storage of approximately 200,000 tons of coal, the object of this plan being to take care of the surplus coal during the summer, in order to permit a steady, normal operation throughout the entire year, and to furnish extra tonnage in the winter, when coal is most needed, and when difficulty of obtaining labor is greatest.

"Our coaling facilities at Charleston will probably be built and owned by a separate terminal company. The plans which we desire to follow have been worked out and have been completed, and the matter is now delayed pending action desired by the Interstate Commerce Commission respecting the export rate on coal."

Big Construction Contracts Awarded.

The Georgia Power Co. of Atlanta, of which C. Elmer Smith of York, Pa., is president, has awarded two big contracts (through the Northern Construction Co. of Detroit) for construction on its proposed water-power-electrical plant at Tallulah Falls. One contract is that awarded to B. H. Hardaway of Columbus for constructing the Tallulah dam, containing 30,000 cubic yards of concrete and costing about $200,000. The other contract is to Condon, Graham & Milnor of Knoxville for constructing the Tallulah intake tower, 7000 feet of tunnel, a forebay and two penstocks, all lined with concrete and costing about $400,000. These contracts are the beginning of construction for the Georgia Power Co. development at Tallulah Falls, where 100,000 horse-power is available. Other properties capable of furnishing another 100,000 horse-power will be developed in the future. The MANUFACTURERS RECORD presented full details of the Georgia Power Co. proposition some weeks ago.

It is announced that a tract of 5000 acres in Cumberland county, Tennessee, has, through the work of Mr. Rutledge Smith, industrial agent of the Tennessee Central Railroad, been sold to a co-operative association of Dillonvale, O., which proposes to settle 100 Bohemian families on the tract to engage in intensifiel cultivation of vegetables, fruits, grains and grasses.

Mr. George C. Tidden of Moorefield, W. Va., writes the MANUFACTURERS RECORD that there is a prospect of success for a movement to form a tri-county Board of Trade of Hampshire, Hardy and Grant counties. The plan, which is headed by the Cornwells of Romney, is to obtain subscriptions of $5000 a year for three years.

The proceedings of the first annual convention of the International Congress of Inventors, held last October at Rochester, N. Y., has been published in pamphlet form.

WHAT IS YOUR TOWN DOING?

The MANUFACTURERS RECORD will be glad to receive from responsible correspondents in every town in the South brief items of news about business conditions and the opportunities for industrial enterprises. This information is desired for publication without cost of any kind to the sender, and regardless of whether the writer of the letter is a subscriber or not. The MANUFACTURERS RECORD accepts no paid matter in its reading pages. It seeks information of this kind from commercial and industrial organizations and from municipal authorities in every town and city of the South.

This department is open only to news facts of interest to investors, homeseekers and manufacturers. Communications of 200 or 300 words are likely to be given prompter publicity than more extended ones.

TO COMPLETE A RAILROAD.

Board of Trade,
Greenville, S. C., March 23.

Editor Manufacturers Record:

At a call of the directors of the Greenville Board of Trade 800 business men of Greenville attended a business meeting of the Greenville commercial body to discuss ways and means for the building of a railroad over the mountains to connect Greenville and Knoxville by linking up the Greenville & Knoxville Railway and the Knoxville, Sevierville & Eastern Railway. Twenty-five visitors from North Carolina, Tennessee and nearby South Carolina cities were present. The following delegates were in attendance: Messrs. Sanford H. Cohen, Knoxville; James K. Keiley, Knoxville; E. C. Chambers of Asheville, H. W. Plummer of Asheville, N. Buckner of Asheville, Hillard Staton of Hendersonville, W. A. Smith of Hendersonville, William P. Chamberlain of Knoxville, J. M. Starrett of Knoxville, Wiley Morgan of Knoxville, David C. Chapman of Knoxville, Dr. Thomas R. Jones of Knoxville, James Hensley of Knoxville, Samuel Harbinson of Knoxville, J. L. Bell of Brevard, Welch Galloway of Brevard, Benjamin Estes of Brevard, E. W. Carter, F. L. DeVon, V. Fortner, D. J. Kerr of Canton and W. H. McMinn of Brevard, R. Mayes Cleveland of Marietta and others.

W. H. Patterson of Atlanta, president of the Greenville & Knoxville road, was introduced to the audience by President H. J. Haynsworth of the Greenville Board of Trade. He said that it was his purpose to build a railroad to connect Greenville with Knoxville and the coal fields of Tennessee; that the road would be a standard trunk line; that it would not be over 1½ per cent. grade; that it would be a two-way tonnage road, and that it would give Greenville a main line to the West. He said that he would ask of Greenville subscriptions to the amount of $100,000 when the road was complete to Brevard, N. C., and an additional $100,000 when the road was completed to Knoxville.

The general sentiment here is in favor of the road and the proposition as made by Mr. Patterson, and as the public still remembers the three canvasses which have been made this year which secured two one-million-dollar cotton mills and a popular subscription of over $300,000 for the Piedmont Northern Interurban line, the public believes that when the call is made for subscriptions the money will be forthcoming.

The visitors while in Greenville were entertained at the local clubs, were given a ride over the city to the places of interest, were carried to the cotton mills and the half-million-dollar steam emergency plant of the Southern Power Co.

The fact that 800 of the best business men of Greenville attended the business meeting of the Board of Trade shows the interest Greenville has in the project.

Mr. W. J. Oliver was present and spoke on the advantages of the road, and promised the support of Knoxville to the proposition.

At present the Greenville end of the road has been built 25 miles to the mountains, and the Knoxville end of the line has been completed to the mountains.

The spirit which was manifested in the Board of Trade meeting is to provide the funds for the connecting link.

E. B. ADAMS,
Secretary.

FOR A FURNITURE FACTORY.

Carthage, Tenn., March 23.

Editor Manufacturers Record:

Carthage, in the rich bluegrass section of Tennessee, at the confluence of the Cumberland and Caney Fork rivers, at the head of slack-water navigation, is, in our opinion, the best location in the State for a furniture factory. The reason for this is that the surrounding territory produces all the high-grade hardwoods necessary or that could be desired. These woods come to Carthage by river and the Tennessee Central Railroad, and we enjoy the lowest rates on both in and out bound freight.

Recently the railroad has built ample trackage, including inclines for complete interchange of river business, and Mr. Rutledge Smith of Cookeville, the industrial agent, while here last week indicated that his road would be glad to furnish any trackage that might be necessary for any industry at this point.

In this county every variety of fruit, grain and vegetable is produced cheaply that is necessary for the support of man. Labor is reasonable and dependable. Good schools and churches and a first-class citizenship make Carthage a desirable site for any kind of woodworking establishment. We welcome these here, where health and prosperity are paramount.

T. B. READ.

NEEDED AT DELVINE.

Retail Merchants' Association,
Delvine, Tex., March 21.

Editor Manufacturers Record:

We have combined the Chamber of Commerce and Retail Merchants' Association for the purpose of giving this section of Texas, and particularly this town, wide publicity. We are bringing to the attention of capitalists, investors and homeseekers the possibilities for profitable investment in our little town and county. We need an electric-lighting system, waterworks system, creamery and laundry. Any two of these we think could be run with one engine at a reduction of cost. Some of the capital could be secured locally.

We want someone to come here and subscribe to a hotel proposition, all but $2000 having already been subscribed for a $10,000 hotel; to be modern in every respect.

A. F. HUBBARD,
Secretary.

KENOVA'S AIMS.

Commercial Club,
Kenova, W. Va., March 16.

Editor Manufacturers Record:

Kindly note the organization of the Kenova Commercial Club. President G. W. Stevens of the Chesapeake & Ohio Railway is quoted as saying that Kenova has the best shipping facilities on the Chesapeake & Ohio Railway between Richmond and Cincinnati, and the Kenova Commercial Club is going to let the world know what we have and make Kenova one of the best towns of the South.

Kenova is the center of a population of

100,000 in the Tri-State district, reaching from Huntington, W. Va., to Ashland, Ky., and Ironton, O., all connected by the Ohio Valley Electric Railway, one of the best interurban railway systems of the entire South.

Kenova is the gateway of the Norfolk & Western coal fields, in the State that stands second in coal production in the country. Two divisions of this great railroad join here and cross into Ohio. The main line of the Chesapeake & Ohio and the southern terminal of the Baltimore & Ohio, together with slack-water navigation on the Ohio and the Big Sandy Rivers, afford unlimited and unsurpassed shipping facilities. Other inducements are offered manufacturing concerns.

W. W. SMITH,
Secretary.

A NEW TOWN.

Bolinger, Tex., March 23.

Editor Manufacturers Record:

The town of Bolinger has been surveyed. The new handle factory is getting started off. Oil wells are being drilled a few miles from here. Iron ore is found here.

M. S. BOLINGER.

Detailed information about towns seeking manufacturing enterprises and offering specific advantages for development and business opportunities can be found under the head of "Classified Opportunities" on pages 78 and 79, and under "Cities, Towns and Railroads Inviting Factories" on pages 104, 105, 106 and 107.

Sugar Mill Costing $345,257.

Referring to the sugar mill which it has decided to erect at Angola State Farm, the Board of Control, State Penitentiary, Baton Rouge, writes as follows:

"We have just let the contract to Payne & Joubert of New Orleans for the entire building, including machinery, etc., except a nine-roller mill and crusher, which was awarded to Bancroft, Ross & Sinclair of New Orleans. The capacity of this mill will be 1500 tons per day, and it is to be modern in every respect, including a granulator. It will be a fireproof building of structural steel. The total mill will cost $345,257, of which $66,900 is for crusher and nine-roller mill, and the remainder for the building and other parts of the house."

Coke in 1909.

According to Mr. Edward Wheeler Parker of the United States Geological Survey, 39,315,065 short tons of coke, valued at $89,965,483, were made in 1909 in the United States, an increase over 1908 of 13,281,547 tons in quantity and $27,481,500 in value.

The Merchants & Miners' Transportation Co. announces the establishment of an improved service between Baltimore, Savannah and Jacksonville, with the new steamers Suwannee and Somerset, beginning April 3 from Baltimore, April 7 from Jacksonville and April 8 from Savannah.

In advance of the Confederate Reunion to be held at Little Rock, Ark., in May, the Board of Trade of that city is circulating a handsome folder containing halftone illustrations of places of interest in the city.

Williams Bros. of Murfreesboro, Tenn., inform the MANUFACTURERS RECORD that the organization of a Board of Trade in that city is being perfected.

The last quarterly report of the West Virginia State Board of Agriculture publishes a number of articles dealing with the problem of forestry in the State.

GOOD ROADS

WEEK'S HIGHWAY RECORD.

Progress in Southern Road and Street Improvement.

[Full details of highway undertakings are given in the Construction Department.]

Bonds Voted.

Andrews, N. C.—City will issue $20,000 of bonds for street improvements, etc.

Brady, Tex.—McCulloch county voted $75,000 of bonds for road construction.

Crockett, Tex.—Houston county voted $150,000 of bonds for road construction.

Conroe, Tex. — Montgomery county voted bond issue for road construction.

Murphy, N. C.—Murphy Township Highway Commission will issue $25,000 of bonds for macadam roads.

Murphy, N. C.—Murphy Township Highway Commission will issue $150,000 of bonds for macadamizing roads; $50,000 will be expended at once.

Bonds to Be Voted.

Farmersville, Tex.—City will vote on issue of $10,000 of bonds for street improvements.

Goldwaite, Tex.—Mills county will vote April 25 on issuing $50,000 of bonds for road construction.

Marion, Va.—Smyth county will vote on issue of $250,000 of bonds for road improvements.

Contracts Awarded.

Birmingham, Ala.—Jefferson county awarded contract for cherting and slagging 1½ miles of road.

Demopolis, Ala.—City awarded contract for constructing 10 blocks (each 300 feet) of cement sidewalks.

Farmville, Va.—City awarded contract for bitulithic paving to cost $14,000.

Greenville, Tex.—City awarded contract for construction of concrete sidewalks in 10 improvement districts.

Joplin, Mo.—City awarded contracts for extensive street improvements, including asphalt macadam, curbing, guttering, etc.

Kernersville, N. C.—City awarded contract for cement sidewalk.

Louisville, Ky.—City awarded contract for curbing costing $3600.

Memphis, Tenn.—City awarded contract at about $170,500 for paving about 6¼ miles of streets with bituminous and tarmacadam.

Sweetwater, Tex.—City awarded contract for 11 blocks of street paving.

Webb City, Mo.—City awarded contract for constructing 35,319 square yards of sidewalk.

Contracts to Be Awarded.

Baltimore, Md.—Board of Awards opens bids April 5 for vitrified block, granite block, sheet asphalt, asphalt block and bitulithic on various streets.

Bowling Green, Ky.—Court appropriated $33,600 for road improvements; eight districts to receive $4200 each.

Columbia, S. C.—City will construct six or more blocks of paving, each containing 3150 square yards of paving and 884 linear feet of steel-bound concrete curbing, etc.

Fayetteville, N. C.—City receives bids until April 3 for paving costing about $35,000.

Gadsden, Ala.—City receives bids until April 3 for constructing 2531 square yards of cement sidewalk, 191 square yards driveways, 2074 linear feet of curbing, 300 cubic yards excavation and 4 catch-basins.

Galveston, Tex.—City receives bids until April 6 for about 1100 square yards of vitrified brick paving.

Greenville, Tex.—City will construct about 50,000 linear feet of street paving on various streets; $300,000 was appropriated recently.

Houston, Tex.—Harris county will invite bids for brick paving on about 4½ miles of road.

Jacksonville, Fla.—Duval county receives bids until April 28 for 27,000 square yards of asphalt macadam.

Meridian, Miss.—Good Roads Commission opens bids on April 4 for about 21 miles of road construction; will open bids later for 20 miles additional; $200,000 is available for expenditures.

Monterey, Va.—State Highway Commission is considering construction of three miles of model road in Highland county.

Newellton, La.—City receives bids until April 6 for constructing 1900 feet of brick sidewalk, four and five feet wide.

Port Bolivar, Tex.—Galveston county receives bids until April 3 for shelling and constructing culverts and bulkheads on about six miles of road.

Portsmouth, Va.—Board of Improvements of Seventh Ward receives bids until March 31 for improving South street.

Richmond, Va.—City received bids until March 28 for granolithic curbs and gutter and granite curbing and spall gutters.

Scale, Ala.—Russell county receives bids until April 3 for grading 15¼ miles of road to Columbus.

Towson, Md.—Baltimore County Road Engineer receives bids until April 6 for v'trified brick and sewer construction at Highlandtown.

Troy, Ala.—City will receive proposals until April 3 for constructing about 2000 square yards of concrete pavement on sidewalks.

Union, W. Va.—Monroe county will award contracts in April for road improvements in six districts.

Windsor, Va.—City receives bids until April 3 for constructing about 400 yards of concrete sidewalk.

MINING

Big West Virginia Developments.

Further extensive development of coal lands in West Virginia is outlined to the MANUFACTURERS RECORD by Harrison B. Smith of Charleston, who is president of the West Virginia Coal Land Co., which organized recently. This company has purchased at about $1,350,000 the Gallego Land Co.'s 27,000 acres in Fayette, Kanawha and Raleigh counties, has sold various tracts to companies now operating under lease, and will make leases or develop the remainder. About 15,000 acres will be so developed. The Milburn Coal & Coke Co., the Republic Company and the Christian Colliery Co. are among the operators which purchased the tracts they have been working. The Selbay Company will buy its leased lands and the Eagle Collieries Co. will be organized to buy and develop 2500 acres. This latter company has J. W. Dawson of Charleston as president and H. H. Rothwell of Burnsville, W. Va., as manager and engineer in charge.

Kentucky-Panama Coal Co.

The MANUFACTURERS RECORD has advices from Inkerman Bailey, Jr., of New York regarding the Kentucky-Panama Coal Co. Mr. Bailey writes in part as follows:

"Preparations in the South at present are beginning to hint at the possibilities of the future consequent to the opening of the Panama Canal. Among recent organizations which will enter the South is the Kentucky-Panama Coal Co., which has been organized by Inkerman Bailey, Sr., a well-known coal operator of the South, who is familiar with the coal-mining advantages of Kentucky. Mr. Bailey had 21 years' experience in the coal fiends of Southern Illinois, and afterwards managed the property of the Reinecke Coal Mining Co. at Madisonville, Ky., for 21 years following the opening of its Eureka mine in 1886. This became the largest producing single mine in the State. The Kentucky-Panama Coal Co., with a capital of $1,000,000, will develop two pieces of coal property in Western Kentucky, on the Louisville & Nashville Railroad, one in Hopkins and the other in Muhlenberg county. An electrically-equipped plant will be installed on each property. The plants, costing approximately $75,000 each, will have a daily capacity of 1500 tons each. Developments will begin as soon as final financial arrangements are completed. Until this time Mr. Bailey will have his office at 66 Broadway, New York, with his son, Inkerman Bailey, Jr., who is special financial agent for the company."

A 6000-Ton Tipple.

The Red Jacket (W. Va.,) Consolidated Coal & Coke Co. is progressing with its new tipple, which will be equipped for a daily capacity of 6000 tons of coal. The company says: "We are now erecting a steel machine-driven tipple for our Mitchell Branch mine, with four loading tracks, for producing slack, nut, lump, straight run of mine and 1¾-inch run of mine, or any combination of these sizes. The general contractor is the Jeffrey Manufacturing Co. of Columbus, O. Our machinery and material for this structure has been purchased. In connection with this tipple we have laid about two miles of standard-gauge railroad track, including sidings."

To Develop Florida Kaolin.

The Peninsular Mining Co., Wauchula, Fla., writes the MANUFACTURERS RECORD that the company has 80 acres of kaolin land and intends to install machinery to mine 50 tons per day, and wants prices on hydraulic plant, either electricity or steam, delivered at the mine, about three-quarters of a mile from depot at Winston, or four and one-half miles from Lakeland, Fla. The officers are A. E. Robinson, president, Lakeland; M. W. Cozart, vice-president, Mobile; R. C. Selvidge, secretary and treasurer, Wauchula; B. T. Altman, superintendent, Wauchula.

A $500,000 Phosphate Company.

The Kentucky-Tennessee Phosphate Co. has been incorporated with $500,000 capital stock to mine phosphate on lands in Kentucky and Tennessee. Its officers are: President, Ed. Stridecock of Richmond, Va.; vice-president, John H. Carpenter; treasurer, James C. Bradford; secretary, Robin Jones; each of Nashville, Tenn.

The United States Company.

General Superintendent Edward O'Toole of the United States Coal & Coke Co., Gary, W. Va., writes the MANUFACTURERS RECORD that his company expects to increase its daily output to 10,000 tons of coal by June 1, and that it will fire about 1500 coke ovens as soon as men can be obtained.

The fourteenth report of the Board of Commissioners of the port of New Orleans, Mr. Hugh McClosky, president, publishes a number of interesting halftone engravings showing some of the facilities of the port.

It is expected that 1000 men and teams will participate in building on April 12 a road seven miles long from Wynne, Ark., to St. Francis Bay.

RAILROADS

[A complete record of all new railroad building in the South will be found in the Construction Department.]

NEW RAILROADS PLANNED.

Lines Proposed in North and South Carolina, Besides Other States.

Among the new railroad enterprises recently reported are the following:

Raleigh, Charlotte & Southern Railroad Co., chartered in North Carolina to build a line about 130 miles long from Raleigh to Charlotte via Pittsboro, Asheboro and Albemarle, making, it is said, a short route between the two terminals. The incorporators are J. S. Efird, W. M. Mann, A. C. Heath, S. H. Hearne, R. L. Smith, A. L. Cornell, W. I. Lee and R. L. Brown of Albemarle; D. A. Tompkins of Charlotte; Arthur H. London, T. M. Bland, Fred C. Williams, Leon T. Lane, Bennett Noon and H. M. London of Pittsboro; W. C. Hammer, J. D. Ross, Marvin Kearns, W. M. Parrish and O. R. Cox of Asheboro, N. C.

Elberton & Eastern Railway Co. applied for charter in Georgia to build from Elberton southeast via Washington to Lincolnton, Ga., about 50 miles; capital $500,000; headquarters at Elberton. The petitioners are W. O. Jones, W. F. Anderson, J. H. Blackwell, L. M. Heard, R. L. Cauthen and Z. B. Rogers of Elberton; W. J. Adams, J. J. Wilkinson and J. A. Moss of Tignall, and M. A. Pharr of Washington, Ga.

Kansas, City, Clay county & St. Joseph Railroad Co., capital $750,000, chartered in Missouri to build a single-track electric railway 53 miles long from Kansas City to St. Joseph, with a short line to Excelsior Springs. The line will be constructed on the east side of the Missouri River. Geo. Townsend of Kansas City, whose name heads the list of stockholders, is quoted as saying that the line will be built as quickly as possible, and that an arrangement has been made with the Armour-Swift syndicate to enter the city over the bridge now under construction. The other shareholders are George Beardsley, W. A. Medill and U. S. Grant Peabody, all of Kansas City. Ward S. Arnold of Chicago, an electrical engineer, is also mentioned as interested.

Ehrhardt & Denmark Railway Co., commissioned in South Carolina with $75,000 capital to build a line from Ehrhardt to Denmark, 17 miles, thus connecting with the Atlantic Coast Line and the Seaboard Air Line. The incorporators are C. W. Garris, S. G. Ray, Charles Ehrhardt, J. B. Guess and J. L. Copeland.

TO DEVELOP RICH LANDS.

North Carolina Traction Co. Has Awarded Contract for Its Line.

As recently noted, the Propst Contracting Co., Charlotte, N. C., has signed contract with the North Carolina Traction Co. to build complete the proposed interurban railway between Winston-Salem, N. C., and Floyd, Va., a distance of 102 miles, which will entail an expenditure of upwards of two million dollars, and the contemplated extensions will necessitate an additional million.

The road will open up a new territory now without railroad facilities, rich in agricultural industry and acres of virgin timber of all varieties, oak, poplar, walnut, hickory, pine, etc. There is now surveyed a tract of coal deposits of 30,000 acres and immense rich iron-ore deposits that were once worked. It will also develop a district that possesses large deposits of mica, and will pass through a great tobacco and apple-raising country, 300,000 barrels of apples being shipped from one county alone this year. All of these products are now hauled from 20 to 80 miles to market in wagons. The line will have no competition, and will serve 270,000 people within five miles of its roadway. It penetrates the foothills of the Allegheny and Blue Ridge Mountains, mounts their highest points and passes to the north with a clear grade not exceeding 2 per cent.

The railroad is to be completed within two years after the work is started ,and the Propst contract provides for the grading, tracklaying, bridges, trestles, culverts, masonry and all equipment ready for the operation of the road, and the contractors are now waiting for instructions to start work.

The officials of the Carolina Traction Co. are A. M. Clark, president, Southern Pines, N. C.; J. W. Sykes, vice-president, Greensboro, N. C., and Dr. H. P. MacKnight, director-general.

BIG BETTERMENT WORK.

Kansas City Southern Begins Spending Its $5,000,000 to Improve Road.

The Kansas City Southern Railroad Co., says a report from Kansas City, has let contract to Porter Bros. of Seattle for part of the grade reduction work between Greenwood and Neosho, Mo. The railroad company itself will do the rest of the work; that which will be done under contract will include all detouring of line. A total of about 23 miles of track will be lowered at different points. Among the subcontractors mentioned are the List & Gifford Construction Co. of Davenport, Iowa; Hannon & Hickey Bros. of St. Louis, Woods, Bancroft & Doty of Chicago, and the Lund Contracting Co. of Chicago. It is said that the work awarded will amount to about $500,000; that which will be done by the railroad company amounts to about $750,000.

President J. A. Edson is quoted as saying that in the next two or three years the road will probably spend about $5,000,000 making improvements in the roadbed and the equipment, and that when the present contracts and the work done by the company are completed between Greenwood and Neosho, work will begin on the roadbed between Neosho and Shreveport. Heavier rail is to be laid there.

NEW C. & O. LOAN.

$125,000,000 of Bonds to Be Issued—Denial of a Recent Report.

The directors of the Chesapeake & Ohio Railway have called a meeting of stockholders at Richmond, Va., for April 29 to act upon the proposed issue of $125,000,000 of 5 per cent. 20-year bonds. The mortgage, it is said, will provide that sufficient bonds shall be reserved out of the total to retire the outstanding 5 per cent. general funding and improvement bonds now limited to $11,000,000, and which mature before the new bonds. The rest will be reserved for the future to finance the construction or purchase of additional lines, terminals or equipment and general improvements. The mortgage will also, it is stated, secure not more than $37,200,000 of the 4½ per cent. 20-year bonds of April 28, 1910.

An officer of the company denies a report current to the effect that contract has been let to build a link from the Chesapeake & Ohio at Elkhorn City, Ky., to the Clinchfield route at Dante, Va. A dispatch from the headquarters of the Clinchfield road also denies the report.

A $2,000,000 TERMINAL.

Norfolk Company to Begin Work in May—Three Roads Interested.

President L. E. Johnson of the Norfolk Terminal Railway Co. is quoted in a dispatch from that city as saying that ground will be broken between May 1 and May 15 for the new terminal, and it will take about a year to finish the work. Bids are to be in by April 15. The station will be nine stories high. The first and second floors will be devoted to the use of the traveling public and the ticket offices, baggage-rooms, etc., while the other seven floors will be occupied by the offices of the Norfolk & Western, the Norfolk Southern and the Virginian railroads. The stockholders of the terminal company have authorized the necessary bond issue of $2,000,000.

Improvements Around Augusta.

The Augusta Railway & Electric Co. and the Augusta-Aiken Railway Co., Augusta, Ga., have arranged for some extension and improvements to their power-houses and railroad systems at an estimated cost of approximately $500,000. The power-house extension is planned for two 2500-kilowatt steam turbines, one of which, with the necessary boilers and auxiliaries, will be installed this year. A transmission line 7½ miles long will be built from the power-house in Augusta to the power-house of the Augusta-Aiken Railway Co. near Clearwater, S. C., and a 500-kilowatt motor generator set will be installed at this point and a 300-kilowatt set in the present substation near Aiken.

Under an arrangement with that city, the wires in Augusta will be placed under ground on three of the principal streets, involving the laying of about three miles of conduits. In connection with this underground work the company will also install ornamental poles on Broad street for carrying its trolley wires and feeders, and also clusters of tungsten lamps for street lighting. An extension of about one mile of single track will be made, and the reconstruction of a large amount of the present tracks is planned.

Contract for the work has been awarded to J. G. White & Co., engineers and contractors, 43 Exchange Place, New York.

New Equipment, Rails, Etc.

The Seaboard Air Line is requesting bids on 25 locomotives, of which 10 are passenger, 10 freight and 5 switch; 3 steel express cars, 3 steel frame postal cars and 1000 box cars, the bids to be laid before the directors at their next meeting. The purchase of steel rails for 125 miles of track has been authorized.

The Atlantic Coast Line expects to purchase 25 locomotives, but the order is not yet placed. Contracts have, however, been awarded to the Pullman Company, Chicago, for 29 passenger equipment cars, and to the American Car & Foundry Co., St. Louis, for 1400 freight cars.

The St. Louis & San Francisco Railroad has recently purchased 11 mail cars with steel exterior and wood interior finish from the American Car & Foundry Co. They are of the railroad company's standard design, with six-wheel trucks, are lighted with electricity and in general conform to the requirements of the Postoffice Department. They will be used on the Kansas City, Fort Scott & Memphis Railroad.

The Houston (Tex.) Electric Co. is reported to have just placed an order for 15 cars to be completed by September 1.

The Louisville & Nashville Railroad, says a market report, has ordered 500 steel underframe gondola cars, the contract being equally divided between the Mt. Vernon Car & Manufacturing Co., Mt. Vernon, Ill., and the American Car & Foundry Co.

A dispatch from Decatur, Ala., says that the cars to be built at the Louisville & Nashville shops there will consist of 400 box cars and 200 ventilated fruit cars, all of 80,000 pounds capacity and with steel underframes.

The Greenville (Tex.) Railway & Light Co. is reported to have ordered 7 single-truck closed cars from the Cincinnati (O.) Car Co.

The Northern Texas Traction Co., Fort Worth, Tex., will, according to a report, purchase 3 high-speed interurban cars, each 60 feet long.

The Ocala Northern Railway, Ocala, Fla., says a dispatch, has received 2 new locomotives from the Baldwin Works, Philadelphia.

The South Covington & Cincinnati Street Railway Co., Covington, Ky., says a report, has ordered 3 12-bench open-car bodies from the American Car Co.

The Santa Fe, it is reported, will purchase a large quantity of tie plates for use on its lines in Texas.

The Asheville & East Tennessee Railway, Asheville, N. C., is reported to have ordered a center aisle open car with 14 benches from the J. G. Brill Company, Philadelphia.

Washington-Norfolk Railway.

A report from Newport News, Va., says that the directors of the Newport News & Yorktown Railway Co. have decided to change its name to the Washington-Norfolk Railway, as it contemplates building a line from Hampton Roads to Washington, D. C. The stockholders must approve the change. W. J. Burlee of Gloucester county has accepted the presidency of the line, it is said. Survey has been made from Newport News to Yorktown.

It is explained that the intention is to build the line not direct to Washington, but to Fredericksburg, Va., connecting there with the existing line from Richmond and using its tracks to Washington. Spur lines are to be built into Norfolk and Hampton.

Among others mentioned as interested are M. C. Armstrong, Richard Armstrong, George Nelms Wise, Dr. Clarence Porter Jones, W. S. Copeland, W. T. Chapin and W. B. Colonna.

It is understood that local subscriptions will be sought, and that efforts will also be made to interest outside capital. The route lies through eight counties, and is to cross the York River at Yorktown.

Oklahoma & Golden City Road.

John A. Griesel, general manager of the Oklahoma & Golden City Railway Co., Golden City, Mo., confirms report that contract for the line is let to William Love of Indianapolis, Ind. It is to extend from Fairview, Okla., to Jefferson City, Mo., about 40 miles, via Enid, Fairfax, Pawhuska, Bartlesville and Miami, Okla.; Joplin, Golden City, Stockton, Climax Springs and Eldon, Mo. Branches are proposed thus: Climax Springs south to Springfield, Mo.; Climax Springs east to Lime Creek, Mo. There will be six large bridges and several small ones. The line will traverse country which is mostly level, but there is some rolling and a small portion rough. Connections will be made with the Kansas City, Mexico & Orient Railway at Fairview, Okla.; also with 11 different lines at Enid, four at Joplin, the Frisco at Golden City and three at Jefferson City. C. E. Hogarty of New York is president of the company; E. M. Dempsey of Enid, Okla., vice-president; D. E. Ketcham of Golden City, treasurer; W. H. Reed, secretary, and J. W. Fewell, chief engineer.

B. & O. Statement.

The Baltimore & Ohio Railroad Co.'s statement of earnings and expenses (exclusive of outside operations) for the month of February, 1911, as compared with February, 1910, shows gross earnings, 1911,

$5,913,433; 1910, $6,291,727; decrease, $378,294. Expenses, 1911, $4,447,677; 1910, $4,898,895; decrease, $451,218. Net earnings, 1911, $1,465,756; 1910, $1,392,832; increase, $72,924.

For the eight months of the fiscal year as compared with the corresponding period of 1910 the statement shows gross earnings, 1911, $59,323,126; 1910, $57,879,581; increase, $1,443,545. Expenses, 1911, $43,354,652; 1910, $39,796,373; increase, $3,558,279. Net earnings, 1911, $15,968,474; 1910, $18,083,208; decrease, $2,114,734.

Kansas City & Memphis.

A letter says that at a special meeting of the directors of the Kansas City & Memphis Railway Co. at Rogers, Ark., Col. W. R. Felker resigned as president of the road in order to give his entire time to the construction of its new line to Fayetteville, Ark., and to Memphis, Tenn., the W. R. Felker Construction Co. having the contract to build and equip the whole line. He still retains the controlling interest in the capital stock of the railroad.

J. E. Felker resigned as secretary and treasurer to devote his time to the Bank of Rogers, which is described as having a large and increasing business.

George D. Locke was elected president of the railroad company, R. C. Hobbs secretary and W. B. Felker treasurer.

A Frisco Report Denied.

President B. L. Winchell of the St. Louis & San Francisco Railroad Co. is quoted in a dispatch from St. Louis as denying a recently-circulated report that the company would undertake the construction of a line from Memphis to Baton Rouge. He is further reported as saying that in 1901 and 1902 the company made a survey between those cities, but that since 1903 nothing has been done, and it is possible that the report originated from the contemplated extension of the New Iberia & Northern Railroad to sugar lands around Port Barre, La., and which is owned by a St. Louis syndicate. The extension from Memphis to Baton Rouge, if built, would require 315 miles of new line.

Memphis, Dallas & Gulf.

An officer of the Memphis, Dallas & Gulf Railroad Co., Nashville, Ark., writes that work for the extension of 45 miles from Murfreesboro via Graysonia to Arkadelphia, Ark., is let in sections of from one to five miles to several contractors. There will be eight steel bridges of 60 feet each, eight of 100 feet each and one of 200 feet. The route is through rolling country, heavily timbered and very productive agriculturally. W. W. Brown is president; C. C. Henderson, vice-president and general manager, and A. M. Van Auken, chief engineer. The road is designed to eventually reach Memphis, Tenn., on the northeast and Dallas and Fort Worth, Tex., on the southwest.

Beaumont Traction Plans.

C. G. Kretz, general manager of the Beaumont Traction Co., Beaumont, Tex., confirms the report that it is proposed to build some double track. He says: "We will not make any extensions just now. We expect to spend within the next few months something like over $100,000 in improving the present system. This will include about 1¼ miles of double track through the center of the city to replace a single track now in commission. We will do the work with our own force; no contracts will be let except for material."

Railroad Notes.

The Central of Georgia Railway, says a report from Birmingham, has completed its line to Acmar, a new mine of the Alabama Fuel & Iron Co.

Concrete work on the Hardwick tunnel of the Seaboard Air Line two miles east of Odenville, Ala., is completed, according to a report from Ashville, Ala.

The proposed union station at Fort Smith, Ark., will be 88 feet wide and 235 feet long. The Frisco system, the Kansas City Southern Railroad and the Fort Smith & Van Buren Railway are interested.

The Edwards Construction Co., says a report from Tampa, has laid one and one-half miles of tracks on Seddon Island for the Seaboard Air Line, and it is in service. The rest will be laid within two weeks. There will be 10 tracks altogether, with capacity of 200 cars.

A telegram from De Valls Bluff, Ark., says that the Stuttgart & Rice Belt Railway, from Mesa, on the Rock Island's line near there, to Stuttgart, Ark., 23 miles, is nearly completed, the track having been laid and only needing some finishing touches to be ready for use.

Official announcement is made of the establishment of a new fast freight route, beginning April 1, over the recently completed Winston-Salem Southbound Railway, in connection with the Atlantic Coast Line and the Norfolk & Western railroads, thus providing new facilities between the West and the South Atlantic States.

Construction of the Kentucky and Indiana bridge at Louisville is progressing rapidly on the Indiana side of the Ohio River, according to a report from that city, and it is expected that by May 1 work will begin upon the superstructure. The Jones Construction Co. has the contract for the fill on the approach upon the Indiana side, and is rushing the work.

The Consolidation Coal Co., according to a dispatch from Whitesburg, Ky., is building a tramroad from Pound, Va., over the Cumberland Mountain via Pound Gap to haul materials for constructing the Sandy Valley & Elkhorn Railway, which it will build from the mouth of Shelby Creek southwest to coal lands. The tram connects with the Indian Creek & Pound River Railroad, that runs to Norton, Va.

The Southern Railway Co., it is reported, will complete a new steel bridge over the Tennessee River about four miles from Rogersville, Tenn., about May 1. The new structure takes the place of an old stone and wood bridge which was erected about 50 years ago. It is 1315 feet long and 78 feet high. There are nine piers and two abutments, all of stone. It was not necessary to build new piers, but they were reinforced with concrete in places. Curtis & Shumway of Lynchburg, Va., it is said, are doing the work.

Foundrymen's Exhibit.

In connection with the conventions May 23-27 at Pittsburg of the American Foundrymen's Association, the American Brass Founders' Association and the Associated Foundry Foremen, there will be an exhibit, under the auspices of the Foundry & Machine Exhibition Co., in which furnaces will be operated and up-to-date foundry machinery in action and foundry supplies will be shown. The Pittsburg Foundrymen's Association, Eliot A. Kebler, chairman, is in charge of arrangements.

Mountain Oak Lumber.

The MANUFACTURERS RECORD is advised that J. W. Corkran of Salisbury, Md., wants to handle the output of a mill cutting mountain oak lumber. He invites mill managers to correspond on this subject.

TEXTILES

[A complete record of new textile enterprises in the South will be found in the Construction Department.]

Correspondence relating to textile matters, especially to the cotton-mill interests of the South, and items of news about new mills or enlargements, special contracts for goods, market conditions, etc., are invited by the MANUFACTURERS RECORD. We shall be glad to have such matters at all times, and also to have any general discussion relating to cotton matters.

Parker Cotton Mills Co.

Details of the corporation having been fully determined, the Parker Cotton Mills Co. of Greenville, S. C., has formally received its charter and organized as was proposed some weeks ago. This company controls nine companies, with about 360,000 spindles and about 9000 looms, producing annually about $5,000,000 worth of print cloth, dimities, etc. Its directors are Lewis W. Parker, Thomas F. Parker and H. J. Haynsworth of Greenville; Edwin W. Robertson of Columbia, S. C.; Thomas Motley and R. F. Herrick of Boston, and R. P. Snelling of Newton Upper Falls, Mass. Lewis W. Parker is president; Thomas F. Parker, vice-president; Alexander Macbeth of Greenville, treasurer; M. M. Trotter, Jr., of Greenville, secretary and assistant treasurer. The capital stock is $10,000,000. The companies controlled are Victor Manufacturing Co. and Greer Manufacturing Co. of Greers, S. C.; Apalache Mills, Arlington, S. C.; Beaver Dam Mills, Edgefield, S. C.; Monaghan Mills, Greenville, S. C.; Olympia Cotton Mills, Capital City Mills, Richland Cotton Mills and Granby Cotton Mills of Columbia, S. C.

Albany Cotton Mills Co.

The Albany Cotton Mills Co., Albany, Ga., will soon have in full operation its new plant, which was completed recently in accordance with plans announced by the MANUFACTURERS RECORD when the company organized last year. This mill contains 10,752 spindles, accompanying looms, three horizontal water-tube boilers of 250 horse-power each, a 1000-gallon fire pump, a 1500-horse-power horizontal cross-compound engine, etc., and will manufacture standard sheeting. Its buildings include main structure 130x183 feet, boiler-room, engine-house, cotton warehouse 102x150 feet and divided into three 50-foot sections, 1½-story frame office building, etc.

Westervelt Mills Building Contract.

The Westervelt Mills of Greenville, S. C., will award contract on April 3 for the construction of the company's buildings, details of which were heretofore mentioned. Contract has been awarded for 5,000,000 bricks for erecting the buildings. These bricks will be of light gray color, and will be laid in black mortar. The Westervelt company is a $1,000,000 enterprise that will install 50,000 spindles and 1200 looms for manufacturing India lawns and linons. Its president is J. I. Westervelt of Greenville, and its architects-engineers in charge are Lockwood, Greene & Co. of Boston and Greenville.

The Dunson Mills.

The Dunson Mills of Lagrange, Ga., has organized with a capital stock of $500,000 in accordance with plans outlined in January. J. E. Dunson, president; J. M. Barnard, vice-president, and T. J. Thornton, secretary, were elected during the week. This company will erect building and install 20,000 spindles, with accompanying looms, etc., after plans by J. E. Sirrine of Greenville, S. C., who has been chosen architect-engineer in charge. Contract for looms has been awarded to the Draper Company of Hopedale, Mass., and for spinning machinery to the Whitin Machine Works of Whitinsville, Mass.

The Patterson Mills.

The Patterson Mills Co. of Roanoke Rapids, N. C., has fully completed its plant in accordance with details announced by the MANUFACTURERS RECORD when the company organized some months ago. This plant contains 22,000 ring spindles, 750 narrow looms, dyeing and finishing equipment, etc., operated by electricity and employing 500 operatives on the production of ginghams, cheviots, etc. Its main building is three stories high, 105x635 feet. Its other buildings include picker-room 52x59 feet, dyehouse 50x295 feet, cotton warehouse 102x563 feet and one story high, etc.

Atlas Manufacturing Co.

The Atlas Manufacturing Co. of Bessemer City, N. C., has been incorporated with $100,000 capital stock by C. J. Huss, A. A. McLean and J. J. Ormond. This is a reorganization of the Vermont Mills, equipped with 5000 ring spindles, 100 automatic looms, etc., for manufacturing sheetings and drills, but for the present will manufacture for the bag trade.

Another Anniston Hosiery Mill.

S. C. Meade of Philadelphia will establish the proposed mill (recently mentioned) for Anniston, Ala. He has purchased the necessary machinery and will knit hosiery, employing about 25 operatives. Mr. Meade can be addressed care of Newton Wilson at Anniston.

Flint Manufacturing Co.

The Flint Manufacturing Co. of Gastonia, N. C., will add 2500 spindles, with accompanying carding and combing equipment. It has awarded the machinery contracts to Whitin Machine Works of Whitinsville, Mass., and the Woonsocket (R. I.) Machine & Press Co.

Textile Notes.

The Chamber of Commerce of San Angelo, Tex., is negotiating with Eastern capitalists for the establishment of a woolen mill.

The Elmore Manufacturing Co., Benj. F. Elmore, manager, Demopolis, Ala., will resume operations. Its mill has been idle for several years.

The R. Bloomberg & Sons Textile Co. of Birmingham, Ala., has been chartered with a capital stock of $45,000. R. Blumberg is president and general manager.

A $2,000,000 Purchase in Texas.

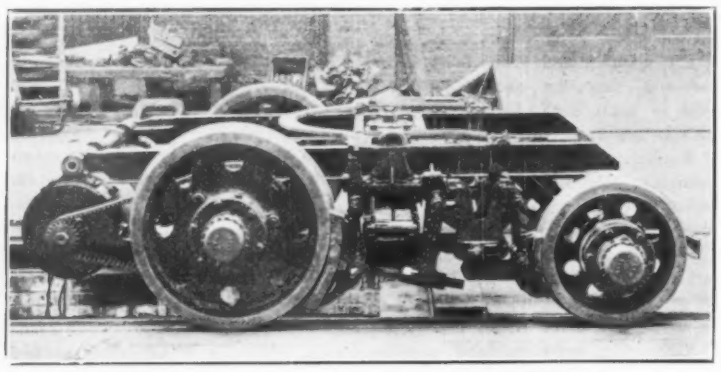
A telegram to the MANUFACTURERS RECORD from E. R. Wicks, manager of the Vaughan Lumber Co. of Houston, announces an important purchase of Texas lumber properties. Mr. Wicks advises that A. C. Ford, president of the Palmetto Lumber Co. of Oakhurst, Tex., and the Vaughan Lumber Co. of Houston have purchased the Walker County Lumber Co.'s holdings at and near Elmina, the price being over $2,000,000. The transaction includes about 8,500,000 feet of lumber and 600,000,000 feet of pine stumpage standing on about 57,000 acres of land. Developments will be continued, with main offices at Elmina and the following officers: President, A. C. Ford of Houston; vice-president, George C. Vaughan of San Antonio; secretary-treasurer, E. R. Wicks of Houston. A single circular-saw mill is now in operation with an annual capacity of 18,000,000 feet of lumber.

MECHANICAL

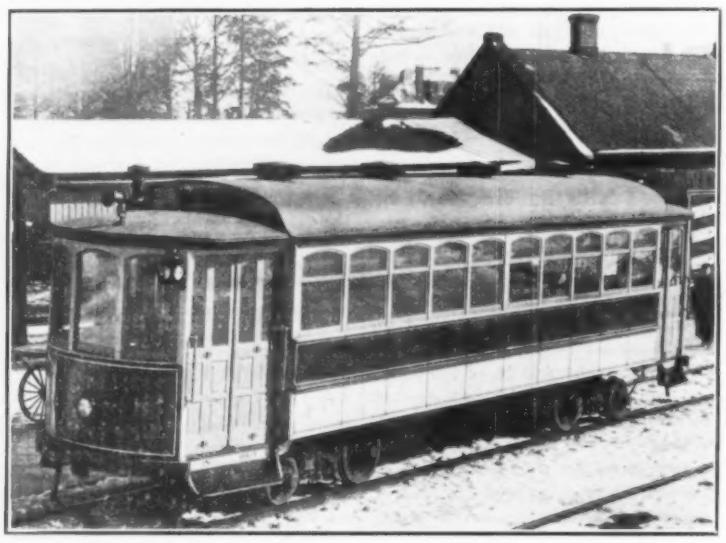
Storage Battery Railroad Cars.

There is a growing interest in the operation of electric cars by storage batteries. This tendency is being given full consideration by manufacturers, prominent among whom is the Federal Storage Battery Car Co. of 50 Church street, New York. This company manufactures the Beach cars, equipped with Edison storage batteries, and two accompanying views illustrate a complete Beach car and a Beach truck. Writing in reference to its cars, the company says in part:

"With a small 1800-pound battery in a single-truck car at Washington, D. C., the car makes as high as 206 miles in a day of 18 hours and 50 minutes, and this over adverse roads consisting of grades up to 8 per cent. This small light battery furnishes only a capacity of 70 miles per single normal charge of battery, but the large mileage is obtained by charging the batteries at each end of the four-mile run for from two to three minutes at five times the normal charging rate, which does no injury whatever to the Edison battery. You will appreciate that this is not possible with any other battery, as the high charging would cause the lead plates to buckle. We might state further that we are now designing a larger type of interurban car, and also cars to be operated in trains of two coaches, one equipped with baggage, express, mail and smoking compartment, and the other for passengers exclusively, these to be operated by the multiple unit of control."



BEACH TRUCK USING EDISON STORAGE BATTERIES.



BEACH ELECTRIC CAR WITH EDISON STORAGE BATTERIES.

This company's car has been perfected by Ralph H. Beach, and the storage battery was perfected, as its name indicates, by Thomas A. Edison, and is manufactured by the Edison Storage Battery Co. of Orange, N. J. Describing its double-truck type No. 101 of the Beach car, the Federal Storage Battery Car Co. says:

"The car body is 28 feet long, inside of corner posts, 7 feet 6 inches wide over drip rail, with longitudinal seats and battery in each lattice steel girder case under the seats. The platforms are 6 feet 1½ inches long, the overall length of the car being 40 feet 3 inches. This car is of steel channels, I-beams and sheathing throughout, with selected white-ash trim. Notwithstanding the steel construction, the entire weight, complete with 180 A8 cells of battery, is about 30,000 pounds, or about 725 pounds of dead weight per seated passenger. Careful design, selection and distribution of materials, elimination of all useless fixtures and weight in materials, such as the arched instead of monitor deck roof, the open instead of the full bulkheads, etc., has made possible this great reduction in dead weight and yet permitted a safe factor of strength.

"With the reduction in dead weight, the friction-saving devices in the truck and truck equipment, and the light and durable Edison battery, these cars may be operated at a cost very much less than is possible with trolley or other system.

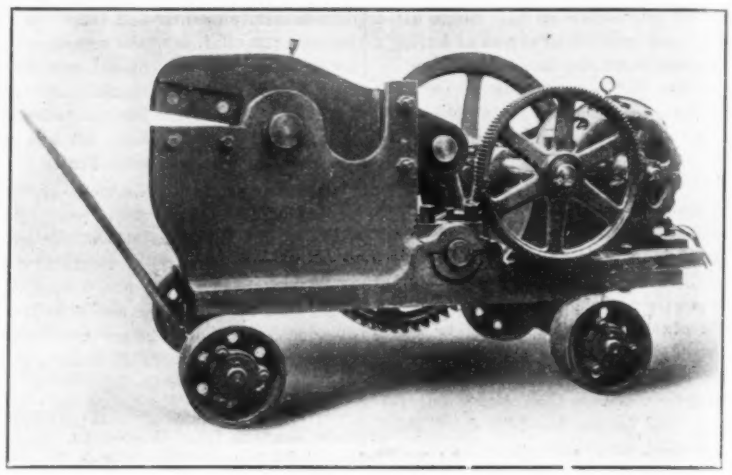
"They have a speed capacity of 25 miles per hour, a seating capacity of 40 passengers, and, including the space allowed for passengers standing, a load capacity of 100 passengers. This particular car has a range per battery charge of 115 miles. Cars of interurban type, with shorter and higher platforms, wider and longer body, with transverse seats and larger seating and less standing capacity, and with a larger battery capacity and mileage range, and also with higher speeds, may be furnished if required. We are also prepared to furnish cars with small compartment, either for smoking or for mail and baggage; also cars for single-end operation; also baggage-mail cars, with side doors, eliminating vestibules and platforms.

"The car shown on the reverse is of steel construction. We are prepared to furnish cars of the usual wooden construction at a lower price than the steel cars.

"The attractiveness, strength and lightness of this roof is obvious. This roof is formed of two eccentric arches, and is a much stronger roof than possible in monitor form, allows increased headroom, affords, by automatic ventilators in the top, a uniform and adequate ventilation, and permits of the double sash and high window, not possible with the old form roof. This roof is supported by vertical, rust-proofed (in black) steel tubes, which serve as grab rails instead of the usual straps; these vertical tubes are, in turn, supported by the longitudinal lattice steel girder, which, in turn, supports the seat and serves as a battery case and 'backbone' on each side for the entire car structure. The horizontal steel tubes, which are enameled white, together with the vertical tubes or grab rails, also serve as conduits for the lighting cables, and supports for the lamp, bell and fare register cord fixtures.

Little Giant Portable Shear.

The Little Giant portable shear equipped with an eletric motor is illustrated herewith. This shear is built by the Danville Foundry & Machine Co. of Danville, Pa., and the motor is from the works of the Westinghouse Electric & Manufacturing Co. of Pittsburg. The maker describes the shear about as follows: "By the use of this shear No. 1 wrought scrap iron can easily be prepared out of No. 2 wrought scrap, and the increased profit will pay for the machine in a few months. The profit due to the additional price per ton, which can be obtained for light iron prepared at the mills for immediate use, will soon equal the cost of the shear. Owing to the bulk of scrap iron, it is seldom possible to load a car to its minimum capacity, thereby necessitating the payment of freight on capacity not used in order to obtain the minimum carload rate. This may be overcome by preparing the light iron for direct use. With one of these machines a yard can easily be kept clean, and will render available for other purposes space which would otherwise be used for scrap bins or piles. The machine will also trim brass and iron, and thus save the considerable labor expense involved in chiseling these apart by hand. The total weight of shear complete with motor is about 4100 pounds, and it can be easily moved. The knives are made of extra quality steel ,and will give long service. They are 10 inches long, and have four cutting edges. Other knives can be made with grooves for cutting special shapes, angles, channels, etc. The opening of the jaws is three and one-half inches at the mouth and three-quarters inch at the heel. This shear will handle round iron or soft steel up to one and one-half inches in diameter, while in the square material one and one-quarter inches is the maximum. The machine is three feet wide and five feet six inches long. The shear knife is about 30 inches from the ground. The blades can be operated at a speed of 50 cuts per minute, and will cut thin plates, hoops or corrugated iron without 'sticking' even after the knives get dull, as the blades are equipped with a pitman connection. The shear illustrated is driven by a five-horsepower Westinghouse CCL motor, three phase, 220 volts, 1700 R. P. M."



LITTLE GIANT PORTABLE SHEAR.

A Mechanical Shorthand Writer.

The MANUFACTURERS RECORD recently referred briefly to the "Universal Stenotype," a machine intended for mechanical shorthand writing. It is of interest to note that the Universal Stenotype Co. of Dallas, Tex., has been incorporated with a capital stock of $1,500,000 to manufacture the device, an illustration of which is presented herewith. In construction the machine is similar to the typewriter, and it is the invention of W. S. Ireland, president of the company. It is so constructed that, with 20 keys and a simple code, all the initial consonants, final consonants, vowels, figures and diphthongs are obtained, being written on a paper roll which moves by a mechanical feed. It is claimed that more than 300 words per minute can be written with the stenotype. The writing is visible, and anyone who has mastered the code can transcribe another operator's writing on the stenotype. By the use of this machine one person can be transcribing on the typewriter while another is writing on the stenotype from dictation, thus having mail ready for the dictator to sign a few minutes after he has finished dictating. Among the officers of the company is R. M. Bowen, who is vice-president and active manager. The company intends to build a large manufacturing plant at Dallas, and now has plans for the initial building, which will be two stories high and 75x300 feet in dimensions, constructed of concrete and reinforced steel, so that it will be fireproof.

A MECHANICAL SHORTHAND WRITER.

Construction Department

TO OUR READERS!

In order to follow up properly the Construction Department items, please bear in mind the following statements:

EXPLANATORY

The MANUFACTURERS RECORD seeks to verify the items reported in its Construction Department by full investigation. It is often impossible to do this before the item must be printed or else lose its value as news, and when this is necessary the statements are made as rumored or reported, and not as positive information. If our readers will note these points they will see the necessity of the discrimination. We are always glad to have our attention called to errors that may occur.

HOW TO ADDRESS

The name of one or more incorporators of a newly incorporated enterprise should always be shown on letter addressed to the official headquarters or to the town of the parties sought, as may be shown in the item. Sometimes a communication merely addressed in the corporate or official name of a newly established company or enterprise cannot be delivered by the postmaster. By following these general directions the postoffice will be enabled to deliver your mail promptly, although it is inevitable that some failure by the postal authorities to deliver mail to new concerns will occur.

WRITE PERSONAL LETTERS

In communicating with individuals and firms reported in these columns a letter written specifically about the matter reported will receive better and quicker attention than a circular.

"In correspondence relating to information published in this department, it will be of advantage to all concerned if the Manufacturers Record is mentioned."

The Daily Bulletin of the Manufacturers Record is published every business day in order to give the earliest possible news about new industrial, commercial, building, railroad and financial enterprises organized in the South and Southwest. It is invaluable to manufacturers, contractors, engineers and all others who want to get in touch at the earliest moment with new undertakings, or the enlargement of established enterprises. The subscription price is $25 per year. On all advertising contracts in the Manufacturers Record for three months or longer a subscription for the contract period to the Daily Bulletin is included.

BRIDGES, CULVERTS, VIADUCTS

Ala., Birmingham.—Jefferson County Board of Revenue will open bids March 31 for construction of 21 bridges, 8 steel and 13 concrete structures; J. W. Gwin, County Engineer, 103 Courthouse. (See "Machinery Wanted.")

Ark., De Witt.—Memphis Bridge Co., Memphis, Tenn., has contract at $1600 to construct steel bridge across Little La Brue; structure is to be 130 feet long and 18 feet wide.

Ark., Little Rock.—City Council passed ordinance providing for construction of bridge across Swagerty Branch; E. A. Kingsley, City Engineer. (See "Sewer Construction.")

Ark., Murfreesboro.—Memphis, Dallas & Gulf Railroad Co., A. M. Van Auken, chief engineer, Nashville, Ark., will construct eight 60-foot, eight 100-foot and one 200-foot steel bridges.

Fla., St. Augustine.—John T. Campbell, 112 Bay St., states that erection of concrete bridge across Sebastian River is contemplated by city, county and St. Johns Light & Power Co. Railway. (See "Machinery Wanted.")

Ga., Doctortown.—Wayne County Comissioners, Jesup, Ga., and Liberty County Commissioners, Hinesville, Ga., contemplate construction of bridge over Altamaha River at Doctortown.

Ga., Macon.—Central of Georgia Railway, C. K. Lawrence, chief engineer, Savannah, Ga., will construct underpass requiring girders; arranged for, and work to be done by company's force.

Mo., Rolla.—Phelps county will construct steel bridge across Piney River at Newburg, Mo.; engineer is preparing plans and specifications. Address County Commissioners.

Okla., Fairview.—Oklahoma & Golden City Railroad Co., John A. Giesel, general manager, Golden City, Mo., will construct six large bridges and several smaller ones in connection with 40 miles of railroad to be built from Fairview to Jefferson City, Mo.

Okla., Lexington.—Lexington Auto Bridge Co. incorporated with $25,000 capital stock by J. A. Brownell, L. J. Brownell and A. Brownell; proposes to construct toll bridge for automobiles across South Canadian River from Lexington to Purcell.

Tenn., Morristown.—Hamblen County Pike Commission, J. N. Fisher, chairman, contemplate voting in April on $25,000 bond issue for construction of culverts, etc., in connection with resurfacing 25 miles of macadam road. (See "Road and Street Work.")

Tex., Rochelle.—Levy & Owens, Galveston and Rochelle, Tex., awarded contract to W. H. Patton for 28 miles of bridging in San Saba and McCulloch counties; cost $75,000 to $85,000. (Recently noted.)

Va., Luray.—Page county will construct steel bridge 500 feet long across Shenandoah River; bids recived until April 6; P. St. J. Wilson, State Highway Commissioner, Richmond, Va. (See "Machinery Wanted.")

W. Va., Union.—J. C. McClaugherty, Monroe County Engineer, will award contract April 5 for building stone abutments for bridge over Brush Creek, near Cashmere, W. Va. (See "Machinery Wanted.")

CANNING AND PACKING PLANTS

Ala., Mobile.—Cudahy Packing Co. (main office Chicago, Ill.) purchased site at 305 and 307 N. Commerce St., and will erect three-story building to be used as distributing station for Mobile section; structure will be furnished with refrigerating plant and equipped for smoking meat shipped from company's Chicago plant.

Ark., Little Rock.—Arkansas Packing & Provision Co., recently reported incorporated with $150,000 capital stock by L. P. Dreytus and others, has acquired Little Rock Packing Co.'s plant and will operate.

La., Lafayette.—Fernand Mouton is promoting organization of company with $50,000 capital stock to erect canning factory and ice plant.

Md., Baltimore.—Kurrle Packing Co., 29 Taylor St., will rebuild packing plant reported damaged by fire.

Mo., Concordia.—Concordia Canning Co. incorporated with $3200 capital stock by J. Vogt, Jr., A. N. Bruns, L. H. Meyers and others.

Tenn., Bon Aqua.—Bon Aqua Canning Co., J. L. Flinn, secretary, Goodrich, Tenn., is reorganization of Bon Aqua Syrup & Canning Co.; has plant. (Recently noted incorporated with $2500 capital stock at Centerville, Tenn.)

Tex., Lufkin.—Lufkin Canning & Preserving Co. incorporated with $63,000 capital stock by T. W. Largent, R. B. Bledsoe, A. A. Abney and others.

Tex., Pearland.—Pearland Canning & Preserving Co. will be incorporated with $6000 capital stock; W. E. Long, J. B. Werlinsky and others are interested.

CLAYWORKING PLANTS

Ky., Hickman—Brick.—W. A. Dodds will establish pressed-brick plant.

Okla., Claremore—Brick.—Claremore Buff Brick & Product Co. incorporated with $25,000 capital stock; will erect brick-manufacturing plant; mill construction; 34x100-foot building; purchased complete stiff-mud equipment at cost of $12,000; daily capacity, 50,000 face brick; president and manager, W. E. Goff, Girard, Kans.; treasurer, J. D. Turkington; construction engineer, I. R. Lamport, Mapleton, Kans. (See "Machinery Wanted.")

Okla., Pawhuska—Brick.—Pawhuska Vitrified Brick Co. increased capital stock from $30,000 to $50,000.

Tex., Brownsville—Brick and Drain Tile.—C. E. Bandisch Drain Tile Co., C. E. Bandisch, president and manager, Box 319, will operate plant with daily capacity of 20,000 brick and 10,000 drain tile; has power equipment; was recently noted to lease Brownsville Brick & Tile Co.'s plant. (See "Machinery Wanted.")

Va., Abingdon—Brick.—King Mountain Brick Co. incorporated with $10,000 capital stock; J. W. Jefferson, president, Bristol, Va.-Tenn.; Robert Goode, secretary; James Cooley, manager, both of Abingdon.

Va., Houston—Bricks.—Boston Brick Co. incorporated with $25,000 capital stock; H. W. Crosby, president; A. H. Vaughan, vice-president; John Cosby, secretary-treasurer.

Va., Richmond—Bricks.—South Side Brick Co. incorporated with $50,000 capital stock; W. W. Haley, president; R. H. Barnes, secretary-treasurer; J. W. Holt, superintendent; will operate established plant of 25,000 daily capacity.

Va., Richlands—Bricks.—Richlands Brick Corporation will install machinery. (See "Machinery Wanted.")

COAL MINES AND COKE OVENS

Ky., Hopkins and Muhlenberg Counties.—Kentucky-Panama Coal Co. organized with $1,000,000 capital stock by Inkerman Bailey, Sr., 66 Broadway, New York, to develop coal land in Hopkins and Muhlenberg counties; install two electrically equipped plans, each to cost about $75,000; daily output of each plant, 1500 tons of coal.

Ky., Madisonville.—Sunset Coal Co., E. L. Hendricks, president, will develop 1000 acres of coal lands; daily output, 1000 tons of coal.

Tenn., Jellico.—Jellico Property Co. incorporated with $48,000 capital stock; H. K. Trammell, president; J. M. Ross, secretary, Somerset, Ky.; company owns and will lease coal lands.

Tenn., Memphis.—Broadway Coal Mining Co. increased capital stock from $75,000 to $150,000.

Tex., Fort Worth.—Hefley-Coleman Coal Co. incorporated with $20,000 capital stock by W. J. Hefley, W. L. Coleman and T. B. Yarbrough.

Tex., Strawn.—Strawn Coal Mining Co. ordered machinery for sinking new shaft; another shaft to be sunk on completion of this one; Ed S. Britton is vice-president of company; J. H. McLure, superintendent; C. M. Smith, manager.

W. Va., Charleston.—West Virginia Coal Land Co., Harrison B. Smith, president, purchased Gallego Land Co.'s 27,000 acres coal land for $1,350,000; has sold leases to several companies now operating and will sell to another company now operating; will sell 2500 acres for development to Eagle Collieries Co., which will organize with J. W. Dawson of Charleston as president and H. H. Rothwell of Burnsville, W. Va., as general manager and engineer in charge; about 15,000 acres will be leased to companies or developed by the West Virginia Coal Land Co.; latter was organized recently.

W. Va., Charleston.—Dawson Development Co. will develop 20,000 acres coal land; has purchased and will begin construction soon; details not determined; J. W. Dawson, president.

W. Va., Charleston.—Scotia Coal & Coke Co. incorporated by Angus McDonald, Geo. S. Couch, Jr., V. S. Black and others.

W. Va., Gary.—United States Coal & Coke Co. expects to increase daily output to 10,000 tons coal by June 1.

W. Va., Red Jacket.—Red Jacket Consolidated Coal Co., Wm. N. Cummins, general superintendent, is having recently-hoted steel, machine-driven coal tipple for Mitchell Branch mine erected by Jeffrey Manufacturing Co. of Columbus, O.; daily capacity, 6000 tons; four loading tracks; two miles of track have been laid in connection.

W. Va., Ward.—Kellys Creek Colliery Co. will develop 50,000 acres land; daily output 1800 tons coal; open machinery bids in June; president, F. M. Staunton; vice-president, C. W. Ward; manager, J. W. Dawson; main offices at Charleston, W. Va.; engineer in charge, H. T. Limorr of Ward. (See "Machinery Wanted.")

W. Va., Wetzel County.—W. W. Keener, J. L. Mattield and E. G. Donley, Cumberland, Md., purchased 1200 to 1800 acres of coal land; reported cost, $175,000.

CONCRETE AND CEMENT PLANTS

Ala., Columbiana—Concrete Pipe and Brick. Columbiana Concrete Pipe Co. organized to manufacture concrete pipe and brick; J. B. Pitts, manager.

Ga., Aragon.—Bald Mountain Portland Cement Co. chartered with $1,000,000 capital stock by J. L. Bass, J. N. King, B. T. Haynes and others of Rome, Ga.; E. C. Lester of Atlanta, Ga.; S. W. Palmer of Milen, Ga., and M. M. Jack of Dalton, Ga.; will build plant; utilize Bald Mountain shale and limestone property, 1½ miles north of Aragon; main offices at Rome, Ga.

Ky., Pine Hill.—Freeborn Construction Co., lately mentioned, is Freeborn Engineering & Construction Co., Scarritt Bldg., Kansas City, Mo.; advises that nothing definite has been decided as to Portland cement plant recently reported.

COTTON COMPRESSES AND GINS

Okla., Hollis.—Hollis Gin Co. incorporated with $10,000 capital stock by C. M. Francis of Hollis, Amos Williams and Sam Williams, Elk City, Okla., and A. O. Miller, Texola, Okla.

Tex., Bloomington.—C. F. Riemenschnieder's Gin Co. will establish gin with daily capacity of 50 bales; cost of machinery, $7000; will erect 40x60-foot fireproof building. (Recently noted.)

Tex., Edgar, R. F. D. from Cuero.—Edgar Ginnery is name of company to erect 22x90-foot galvanized-iron cotton gin; construction by owners; will install machinery, operated by steam. Address machinery proposals to W. W. Perry (recently noted to establish gin), R. F. D. No. 3 from Cuero. (See "Machinery Wanted.")

Tex., Fowler.—Fowler Gin Co. takes over cotton-gin plant of Fowler Bros.; Eugene Fowler, president; T. E. Fowler, vice-president and manager; E. C. Haeber, secretary-treasurer; no new construction under consideration. (Recently noted incorporated with $20,000 capital stock.)

Tex., Mission.—Mission Farm Co. will erect four-stand 70-saw cotton gin; equipment to be installed in two-story building; in addition to main machinery building, storage-rooms for seed, seed cotton, lint cotton and bale cotton are to be provided with platform space. (Recently mentioned.)

Tex., Olney.—Farmers' Union Gin & Warehouse Co. incorporated with $14,000 capital stock by C. W. Junker, W. H. Rothel and others.

COTTONSEED-OIL MILLS

Okla., Hollis.—Hollis Cotton Oil, Light & Ice Co. (E. C. Burton and others), Chickasha, Okla., has contracted for all buildings and equipment for Hollis plant. (Recently noted incorporated.)

DRAINAGE AND IRRIGATION

La., Morgan City.—Morgan City Land Co., Eugene A. Pharr, president, has completed arrangements for reclamation of 14,000 acres of wet land on Avoca and Batemans islands; Bowers Southern Dredging Co., Galveston, Tex., secured contract for dredging, and has begun work on Avoca Island, which will be first to be reclaimed; pumping plant will be installed; Warren B. Reed, New Orleans, La., made surveys; Morgan City Land Co. is capitalized at $300,000. (Eugene Pharr and associates were previously reported to have purchased 12,000 acres of swamp land.)

N. C., Statesville.—Drainage Commissioners, P. P. Dulin, L. O. White and M. C. Williams, members of commission, will receive bids until April 15 for dredging Third Creek Drainage District; ditch 14.7 miles long, requiring, by estimate of drainage engineers, excavation of 437,240 cubic yards of earth. (See "Machinery Wanted.")

N. C., Whiteville.—C. R. Humphreys, civil engineer, Wilmington, N. C., and others are promoting organization of drainage district to embrace White and Brown marshes, extending from five miles above Clarkton, N. C.

Tex., Lueders.—S. M. Swenson & Sons, Stamford, Tex., are preparing to install irrigation plant on Clear Fork of Brazos River, three miles from Lueders, and irrigate 200 to 300 acres; blueprints have been made and machinery will soon be ordered; later contemplate irrigation of additional property.

Tex., San Benito.—Esperitu Santo Irrigated Land Co. (recently reported incorporated with $25,000 capital stock) is subsidiary to and under canal system of San Benito Land & Water Co.

Tex., Marfa.—St. Stephen Land & Irrigation Co., Sanford J. Truman, secretary, advises Manufacturers Record that dam across Alamito Creek will be of Ambursen type, 104 feet high above bed rock, 992 feet long, 62-foot buttresses set 16 feet apart; entire dam and face wall to be of reinforced concrete; face wall to have inclination of 45 degrees, and be 42 inches thick at bedrock and 18 inches at crest of dam; reservoir to cover about 1120 acres of water and hold 60,000 acre feet; from two main canals, to be built on each side of property, 9000 acres land to be under gravitation; Rees Turpin is president of company, with office at 934 New York Life Bldg., Kansas City, Mo. (Company previously noted incorporated with $250,000 capital stock and to employ Ambursen Hydraulic Construction Co., Boston, Mass., as consulting engineer.)

ELECTRIC LIGHT AND POWER

Ala., Decatur.—City Council is considering construction of electric-light plant. Address The Mayor.

Ala., Troy.—City will receive proposals April 17 on 3½ miles transmission line, etc.; A. B. Campbell, superintendent electric and water departments. (See "Machinery Wanted.")

Ark., Cummins.—Board of Penitentiary Commissioners, John H. Page, secretary, Little Rock, Ark., contemplates installation of electric-light plant of 200 lights capacity, erection of 15,000-gallon cypress tank, drilling deep well and installation of water and sewerage systems at State convict farm.

Ark., De Witt.—L. E. Paynter, Medora, Ill., contemplates construction of electric-light plant.

Ark., Gurdon.—City Council granted 30-year franchise to J. B. and J. G. Gresham to construct electric-light plant and waterworks.

Ark., Jonesboro.—Spring River Power Co. incorporated with $100,000 capital stock.

Ark., Siloam Springs.—City Council voted to expend $5000 for additional machinery for electric-light plant and establishment of 24-hour service; needed equipment purchased; no enlargement of plant.

Fla., Fort Lauderdale.—Fort Lauderdale Ice & Light Co., Henry R. Brown, president, will construct electric-light plant. (See "Ice and Cold storage Plants.")

Fla., Jacksonville.—Board of Trustees for Water Works and Improvement Bonds, W. M. Bostwick, chairman, will open bids on April 4 and 18 for furnishing extensive quantity of electrical, steam, pumping and other machinery, for erecting power-house, furnishing piping, etc.; plans and contract forms on file with Board and with engineer in charge, Scofield Engineering Co. of Philadelphia, Pa.; proposed extensive improvements heretofore noted. (See "Machinery Wanted.")

Ga., Atlanta.—Austell Power Co. incorporated with $300,000 capital stock and privilege of increasing to $1,000,000 by C. C. Bruckner and George W. Mason of Atlanta and George E. Zimmerman of New York.

Ga., Augusta.—J. G. White & Co., 43 Exchange Pl., New York, contractors for the work, advise Manufacturers Record as follows relative to recently-noted improvements and extensions to be made by Augusta Railway & Electric Co., Franklin Q. Brown, president, and Augusta-Aiken Railway Co.: Power-house extension is planned for two 2500-kilowatt steam turbines, one of which will be installed this year; 7½-mile transmission line to be built from Augusta to near Clearwater, S. C., where 500-kilowatt motor generator set will be installed; also 300-kilowatt set in substation near Aiken; underground system of wires involves laying about three miles conduits and installation of ornamental poles in Augusta for trolley wires, street lighting, etc.; also track work; estimated cost, approximately $500,000. (Further facts previously detailed.)

Ga., Barnesville.—City will vote April 18 on issuance of $50,000 of bonds for extension of electric-light plant, etc. Address The Mayor. (See "Water-works.")

Ga., Swainsboro.—City will vote April 17 on issuance of $40,000 of bonds for construction of electric-light plant and water-works. Address The Mayor.

Ga., Tallulah.—Georgia Power Co. of Atlanta, Ga. (C. Elmer Smith, president, York, Pa.), awarded contract through Northern Contracting Co. of Detroit, Mich., to B. H. Hardaway of Columbus, Ga., for construction of dam containing 30,000 cubic yards of concrete and costing about $200,000; to Condon, Graham & Milnor of Knoxville, Tenn., for construction of intake tower, 7000 feet of tunnel, forebay, and two penstock tunnels, all lined with concrete and costing about $400,000. This work for Georgia Power Co.'s development of water-power of Tallulah Falls, where 100,000 horse-power is available; other properties will be developed for 100,000 horse-power. (Previously detailed by Manufacturers Record.)

Md., Baltimore.—Subway Department, Raleigh C. Thomas, chief engineer, City Hall, will soon begin additional work at estimated expenditure of $70,000, which, it is expected, will complete entire conduit system.

N. C., Andrews.—City will issue $20,000 of bonds for water-works, electric lights and street improvements; H. N. Wells, Mayor.

Okla., Boley.—Boley Light, Power & Manufacturing Co. incorporated with $20,000 capital stock by D. J. Turner, T. M. Haynes, J. H. McRiley, J. B. Armstrong and others.

Okla., Hollis.—Hollis Cotton Oil, Light & Ice Co., Chickasha, Okla., has placed contract for Hollis plant machinery. (See "Cottonseed-oil Mills.")

Okla., Heavener.—Heavener Light & Power Co. incorporated with $10,000 capital stock by Claude O. Moore, Elias Cooper, Herbert D. Allen of Wilburton, Okla.

Okla., Vian.—City will vote April 4 on granting of electric-light franchise. Address The Mayor.

S. C., Charleston.—Charleston Consolidated Railway, Gas & Electric Co., P. H. Gadsden, president, 141 Meeting St., voted to increase capital stock from $2,000,000 to $3,000,000 to provide for additions now being made and to provide for further future enlargements and improvements. (Recently mentioned.)

Tenn., Jackson.—City will receive bids until 12 noon April 4 for electric-light equipment recently noted; T. H. Hartmus, secretary. (See "Machinery Wanted.")

Tex., Belton.—Belton Ice & Electric Co. (recently reported incorporated with $75,000 capital stock by W. W. Thornton and others) is a consolidation of two companies now in operation; will erect brick engine-room of ordinary construction; 36x48x14 feet.

Tex., Bryan.—City will wire town; Tungsten system; use conduit and ornamental posts; Lawler Milling Co. will furnish electricity; A. B. Carson, City Engineer, supervising work. (E. T. Lawler of New Orleans, La., recently noted to establish plant.)

Tex., Coleman.—City awarded contract to Briggs-Weaver Machinery Co., Dallas, Tex., for installation of electrical machinery; contracting company supplied with all needed equipment. (Recent notice slightly incorrect.)

W. Va., Brandonville.—F. R. Garzer and associates (New York and Pittsburg capitalists) will, it is reported, build water-power electrical plant and transmit electricity to various cities; now said to be completing land purchases and planning construction of dam forming lake 30 miles long.

W. Va., Wheeling.—Consumers' Electric Co., 51 16th St., will award contracts in a few days for buildings, stack and iron work for power plant to cost $700,000 to $900,000; contracts for boilers, pumps, turbines, etc., have been placed. (Previously noted.)

FERTILIZER FACTORIES

Ala., Cullman.—Union Fertilizer Co. incorporated with $30,000 capital stock by G. W. Brudier, W. R. Moore, Fred J. Buckman and others.

Miss., Meridian.—A. H. George & Co. will build acidulating plant addition to mixed feed, fertilizer and cottonseed-products plant.

FLOUR, FEED AND MEAL MILLS

Mo., Fulton.—Cedar Milling Co. incorporated with $12,000 capital stock by J. P. Utt and W. H. Renoe, both of Fulton, and S. K. Kennett, Guthrie, Okla.

Mo., Joplin.—J. W. Boyd Grain Co. will erect combined grain elevator, warehouse and corn meal plant at Railroad and Hill Sts.; estimated cost, $12,000.

Okla., Oklahoma City.—Standard Milling Co. reorganized as Oklahoma Alfalfa Products Co., and incorporated with $50,000 capital stock by Mr. Moberly, Mrs. Vere Moberly and Gertrude Chaffee; will continue operation of plant at 301 W. Pine Ave., establish branch offices in various parts of Oklahoma and erect warehouse for storage of alfalfa; later alfalfa will be manufactured into meal.

Tex., Rosenberg.—Rosenberg Mill & Elevator Co. increase capital stock from $10,000 to $20,000.

Tex., San Angelo.—San Angelo Milling Co., Paul J. Garrett, president, has completed plans and is receiving bids on construction of flour mill; four stories; reinforced concrete; cost $30,000; will install machinery; daily capacity, 200 barrels of flour; also erect corn and chop mill. (Previously noted.)

W. Va., Charleston.—Brown Milling & Produce Co. incorporated with $45,000 capital stock by W. Frost Brown, E. R. Mendenhall, Edward Calderwood, Buckner Clay and R. S. Spillman.

FOUNDRY AND MACHINE PLANTS

Ala., Mobile—Stoves, etc.—Mobile Stove and Pulley Works will rebuild upon enlarged scale main foundry building at its plant, Ann and Tennessee Sts., reported burned at loss of $20,000 to $25,000.

Ga., Valdosta—Grate Bars.—Thomas Grate Bar Co., main office Birmingham, Ala., will rebuild plant reported burned; plant was in process of being remodeled and enlarged; materials on hand will be used, extra material to be supplied locally; daily capacity, 100 Thomas elliptic grate bars.

Md., Frederick—Door Locks, etc.—American Foundry & Manufacturing Co., Charles E. Fisher, president, leased Page foundry on W. South St., owned by John Baumgardner, and will manufacture springless door locks, shelf hardware, stand and shutter fasteners, etc.; foundry will occupy floor space of about 70x40 feet; company has absorbed National Shutter Bar Co. and will continue manufacture of fasteners.

Mo., St. Louis—Crushers, Milling Machines, etc.—Imperial Machinery Co., J. N. Harling, secretary, 606 Houser Bldg., reorganized; manufactures crushers, pulverizers, mining and milling machines, making specialty of combined crusher and pulverizer.

N. C., Charlotte—Textile Machinery.—Charlotte Manufacturing Co. purchased machinery of Southern Card Clothing & Reed Co.; will manufacture cylinders, strippers, doffers, burnishers, top flats, hand cards, reeds and slasher combs; will occupy building used by Southern Company; has not elected officers. (Recently noted incorporated by F. W. Glover, A. J. Crampton and P. L. McMahon.)

Okla., Muskogee—Stoves.—Oklahoma Stove & Range Co., C. D. McDaniel, manager, will erect 100x200-foot fireproof building, to cost $10,000; also 70x100-foot structure; has machinery and patterns; recently noted as Central Stove & Plating Co. of Columbus, O. (See "Machinery Wanted.")

S. C., Chester.—Chester Machine & Lumber Co., B. M. Spratt, treasurer, will rebuild plant; plans not definite. (Recently reported burned.)

Tex., Austin.—Tips Foundry & Machinery Co. increased capital stock from $20,000 to $40,000.

Tex., El Paso—Drills, etc.—Rock Drills & Machinery Co. incorporated with $50,000 capital stock by C. B. Schley, W. H. Leonard, Roy G. Crowder and others.

Va., Roanoke.—H. B. Rockhill will erect machine shop; erection of buildings begun; machinery ordered; plant will be known as Rockhill Machine Works.

W. Va., Huntington—Gas and Gasoline Engines.—I. B. Ullom & Co., I. B. Ullom, president, Guyandotte, W. Va., will establish plant to manufacture gas and gasoline engines; buildings erected.

GAS AND OIL DEVELOPMENTS

Ala., Bear Creek.—Bear Creek Oil & Gas Co. incorporated with $10,000 capital stock by E. A. Smith, Red Bay, Ala.; A. J. Hackett, R. M. Bay, F. W. Duneen and S. W. Wilson, McComb City, Miss.

Ala., Fayette.—Providence Oil & Gas Co., Frank Nelson, Jr., president, Birmingham, Ala., has awarded contracts for drilling nine additional wells in Fayette field for gas; contemplates purchase of 50,000 acres of gas and oil lands in addition to property now owned.

Ky., Nortonville.—Nortonville Gas & Oil Co. incorporated with $100,000 capital stock by Frank E. Mohr, Columbus, O.; Frank G. Hoge, Nortonville, and T. F. Callard, Hopkinsville, Ky.

La., Vinton.—Vinton Oil & Sulphur Co. reorganized; A. Vincent, president; J. Lee Vincent, vice-president; J. J. Dubourg, secretary-treasurer; will resume oil drilling and sulphur mining; acreage, 4680.

Miss., Gulfport.—Gulfport Oil Co. incorporated with $30,000 capital stock by J. R. Ladnier, Handsboro, Miss.; W. H. Ladnier, Pascagoula, Miss.

Miss., Laine.—Pascagoula Development Co., F. H. Lewis, treasurer, Pascagoula, Miss., is asking proposals on drilling of two wells; 2500 and 3000 feet. O. H. De Lamorton and others recently noted interested in organization of company. (See "Machinery Wanted.")

Okla., Roff.—Roxanna Oil & Gas Co. incorporated with $30,000 capital stock by H. B. Huterbaugh and J. D. Brownlee, Jr., Indiana, Pa., and Paul M. McHenry, Dewey, Okla.

Okla., Talihina.—Talihina Oil & Gas Co. incorporated with $15,000 capital stock by John J. Thomas, E. A. McCowan, J. W. Anderson and J. N. Ross.

Okla., Tulsa.—Tom Moore Oil Co. incorporated with $10,000 capital stock by A. B. Reese, M. W. Kelsey and P. J. Hurley.

W. Va., Parkersburg.—Ritchie Reserve Oil & Gas Co. incorporated with $25,000 capital stock by H. Behrman, A. A. Smith, J. O. Mead and others to develop oil fields in Ritchie county in Silver Run oil field; offices, 402 Juliana St.

W. Va., Pennsboro.—Leasehold Oil & Gas Co. incorporated with $50,000 capital stock by Jay E. Cunningham and John H. Wilson of Pennsboro; Dolphus C. Pratt, Morgantown, W. Va., and others.

W. Va., Parkersburg.—Junto Oil Co. incorporated with $10,000 capital stock by Paulus Reps, W. F. Johnson, Thomas Coleman and others.

ICE AND COLD-STORAGE PLANTS

Fla., Fort Lauderdale.—Fort Lauderdale Ice & Light Co., recently reported incorporated with $50,000 capital stock, awarded contract to P. R. McCrary to install ice plant. Henry R. Brown is president.

Ga., Valdosta.—Valdosta Ice & Power Co. will issue $50,000 in bonds to provide for improvements to plant.

La., Lafayette.—Fernand Mouton is promoting organization of company with $50,000 capital stock to erect ice plant and canning factory.

Okla., Hollis.—Hollis Cotton Oil, Light & Ice Co., Chickasha, Okla., has contracted for all equipment needed for Hollis plant. (See "Cottonseed-Oil Mills.")

Tex., Belton.—Belton Ice & Electric Co. (recently reported incorporated with $75,000 capital stock by W. W. Thornton and others) is a consolidation of two companies now in operation. (See "Electric-light and Power Plants.")

Tex., Jasper.—Jasper Ice Co. is name of company to establish ice plant; organization not completed; machinery supplied. (J. C. Ward of Waco, Tex., and J. E. Carroll, Beaumont, Tex., recently noted as promoters.)

Tex., Mason.—Mason Ice & Power Co. has organized with F. C. Beyer president, Max Martin vice-president, B. P. Jordan secretary-treasurer; will operate five-ton ice plant; has machinery. (Recently reported incorporated with $14,000 capital stock.)

Tex., San Antonio.—Mission Ice Co., Rivas and San Marcos St., has purchased equipment for ice plant of 50 tons daily capacity; cost $18,000; will erect 76x66-foot and 40x90-foot buildings; John Stricker, president; J. R. Baldwin, manager. (Recently noted incorporated with $30,000 capital stock.)

Tex., San Benito.—San Benito Ice & Cold Storage Co. (recently noted incorporated with $30,000 capital stock) will operate plant previously mentioned; $30,000 building under construction; machinery purchased; capacity, 20 tons daily; W. H. Morrison, president and manager; S. A. Robertson, vice-president and secretary; O. P. Perkins, treasurer.

LAND DEVELOPMENTS

Ark., Little Rock.—Factoria Land Co. incorporated with $100,000 capital stock by A. C. Read, W. D. Cammack, M. W. Fleming and Chris Ledwidge.

Fla., Orlando.—Orlando Florida Farms Co., D. Riley, president, 307 Fisher Bldg., Chicago, Ill., will, within next two years, expend $30,000 to $40,000 in improving and developing land near Orlando.

Md., Emmitsburg.—Emmitsburg Fruit & Orchard Co. incorporated with $10,000 capital stock by Albert W. Patterson, G. Mead Patterson, Andrew A. Horner, Thaddeus E. Zimmerman and others; main office in Emmitsburg.

Md., Hagerstown.—City voted issuance of $50,000 of bonds for establishment of park. Address The Mayor.

Mo., Olden.—Chickasaw Orchard Co. incorporated with $60,000 capital stock by S. B. Anderson, H. B. Anderson, J. G. Brown and others.

N. C., Asheville.—S. Sternberg will develop about 40 acres touching Riverside Drive, Courtland Ave., as residential section; planned to construct several miles of streets and divide tract into building lots; Engineer Lee is making surveys.

Okla., Jay.—Delaware County Commissioners awarded contract to J. Robert Burnham, Tulsa, Okla., for platting new town of Jay, which is to be made county seat; work under direction of Jay Improvement Association.

Tex., Fort Worth.—River Crest Golf Club, Morris Berney, president, employed specialists to lay out golf course and tennis grounds on 600 acres recently acquired; also reported to add polo field; will erect clubhouse.

Tex., Houston.—Mid-Coast Land Co. is incorporated with $1000 capital stock to handle properties and develop immigration; present office, Eagle Lake, Tex.; home office to be Houston; William H. Mallory, president; J. M. Turner and O. L. Miller, vice-presidents; W. T. Chester, secretary; B. L. Vineyard, treasurer. (Recently noted.)

Tex., San Antonio.—San Marcos Development Co. incorporated with $40,000 capital stock by R. H. Webster, W. E. Remy and L. B. Jones.

Va., Stony Creek.—Southeast Virginia Corporation incorporated with $50,000 capital stock; W. T. Freeman, president; W. B. Cocke, vice-president and general counsel; B. F. Jarrett, secretary-treasurer.

W. Va., Martinsburg.—Seibert Orchard Co. incorporated with $50,000 capital stock by Alex. Clohan, H. S. Thompson, L. H. Thompson and Benjamin Thompson; will plant and develop about 120 acres.

LUMBER MANUFACTURING

Ala., Buhl.—Bell-Deal Lumber Co. incorporated with $30,000 capital stock.

Ala., Huntsville.—Southern Pine & Lumber Co. incorporated with $25,000 capital stock by S. O. Holmes, J. F. Holmes and G. R. Holmes.

Ala., Shelby County.—Oden-Elliott Lumber Co., Birmingham, Ala., purchased 6000 acres of pine timber.

Ark., Texarkana.—D. L. Adams, Portland, Ind., purchased 5000 acres of timber land on Sulphur River for about $75,000; Mr. Adams advises Manufacturers Record that land is purchased for investment; at present will not develop or install mills.

Ga., Rome.—Acme Lumber & Manufacturing Co., J. H. Taylor, president, will rebuild plant recently reported burned.

Ga., Valdosta.—Fender Lumber Co. will rebuild sawmill reported burned.

Ky., Hickman.—Reynolds-Moss Lumber Co. incorporated with $10,000 capital stock by T. R. Reynolds, W. G. Reynolds and C. T. Moss.

Ky., Louisville.—Southern Veneer Manufacturing Co. increased capital stock from $25,000 to $50,000.

La., Lake Providence.—American Forest Co., White Bldg., Buffalo, N. Y., will build, it is reported, band-saw mill with daily output of 40,000 feet of lumber.

Md., Salisbury.—Stumpage Lumber Co. incorporated with $50,000 capital stock by Wm. M. Day, Harry L. Brewington, Robert D. Grier and others.

Miss., Tylertown.—Q. D. Sauls will establish lumber manufacturing plant.

Miss., Yazoo City.—Twin Oaks Lumber Co. incorporated with $10,000 capital stock by R. E. Walter, J. D. Purvis and H. S. Vincent, Colby, Miss.

Miss., Yazoo City.—Henry Malley Lumber Co. incorporated with $30,000 capital stock by Charles E. Malley, J. W. Bertrand and others.

Okla., Atoka.—National Lumber & Manufacturing Co. incorporated with $10,000 capital stock by J. M. Humphries, W. Bassell, James H. Ganert, I. Q. Jones and F. E. Adams.

S. C., St. Charles.—St. Charles Lumber Co. incorporated with $5000 capital stock by J. W. Jackson and V. M. Field, Sumter, S. C., and W. J. Beetham, Georgetown, S. C.

Tenn., Covington.—Mayes Lumber Co. incorporated with $5000 capital stock by R. E. Lee, Wilson W. Kearney, R. B. Davie, W. S. Mayes and others.

Tenn., Harriman.—J. C. Henry, Belmont, N. Y., has, it is reported, purchased for development timber amounting to several million feet on 1160 acres of land.

Tex., Eagle Pass.—Eagle Pass Lumber Co. increased capital stock from $150,000 to $200,000.

Tenn., Iron City.—Forsythe Bros. incorporated with $20,000 capital stock with J. M. Forsythe, president and treasurer; B. F. Watkins, vice-president; E. L. Forsythe, secretary; operates saw and planing mill at Iron City and several sawmills adjacent to city.

Tex., Clarksville.—Barry Lumber & Tie Co. incorporated with $40,000 capital stock by John E. Barry, C. O. Bollman and J. D. Barry.

Tex., Elmina.—E. R. Wicks telegraphs Manufacturers Record that A. C. Ford, president of Palmetto Lumber Co., Oakhurst, Tex., and Vaughan Lumber Co., E. R. Wicks, manager, Houston, Tex., purchased Walker County Lumber Co. of Elmina, including 8,500,000 feet of lumber and 600,000,000 feet of pine stumpage on 57,000 acres of land; purchase price, over $2,000,000; have single circular sawmill with annual capacity of 18,000,000 feet in lumber.

Tex., Paint Rock.—J. D. McCollo Lumber Co. incorporated with $12,000 capital stock by J. D. McCollo, Karl Armstrong and Frank Armstrong.

Va., Briery.—Jos. L. Pearson & Son, R. No. 2, Keysville, Va., will remove saw and planing mill to Briery Station; contemplates adding spool and bobbin stock machinery. (See "Machinery Wanted.")

Va., Norfolk.—Sawyers Bros. have contract to erect planing mill building; one story; brick; 105x68 feet; cost $3000.

W. Va., Wheeling.—Central Lumber Co. incorporated with $5000 capital stock by E. V. Robinson, B. J. Smith, Adam Fehrenbach and others.

METAL-WORKING PLANTS

Ark., Little Rock—Canning Machines.—W. G. McKean of De Queen, Ark., and others will manufacture portable canning machines for use on farms; machines to have capacity of 1000, 1500, 2000 and 2500 cans per day; machines constructed of sheet metal, etc.; will not erect factory at present; Mr. McKean recently incorrectly noted to manufacture fruit and vegetable cans. (See "Machinery Wanted.")

Mo., St. Louis—Wire.—Ludlow-Saylor Wire Co. increased capital stock from $500,000 to $600,000; offices, 634 S. Newstead Ave.

Okla., Britton — Metal Shingles. — Burris Metal Shingle Co., recently reported incorporated with $25,000 by J. B. Ellison, Oklahoma City, Okla., and others, will establish plant costing about $50,000.

Tex., Dallas—Tin and Iron.—Smith & Rawlins will erect tin and iron plant; 37x100 feet; cost $7500; J. O. Gill is architect; R. T. Swann, contractor, both of Dallas.

MINING

Ark., Lead Hill—Zinc.—J. G. Cottle of Carnation Mining Co., Joplin, Mo., purchased 40 acres of zinc land and will install plant for development.

Fla., Winston (not a postoffice).—Peninsular Mining Co., Wauchula, Fla., incorporated with $100,000 capital stock; A. E. Robinson, president; M. W. Cozart, vice-president; W. C. Braddock, secretary-treasurer; R. T. Altman, superintendent; will develop 80 acres of kaolin deposits; daily capacity, 50 tons of kaolin. (See "Machinery Wanted.")

La., Vinton—Sulphur.—Vinton Oil & Sulphur Co., A. Vincent, president, recently reported incorporated (under Lake Charles, La.), will resume sulphur mining. (See "Gas and Oil Developments.")

Md., Hancock—Sand. — Hancock Building Sand Co. incorporated with $15,000 capital stock; J. Taliaferro Bridges, president; C. C. Easton, vice-president; H. W. Rosen, secretary; F. Wilbur Bridges, treasurer; Preston Bowles, manager; will develop sand mines and operate mill with capacity of 120 to 200 tons daily; cost of machinery, about $6000.

Mo., Aurora.—Calloway & Co. will sink new shaft and develop zinc mines; will install pumping machinery.

Mo., Carthage.—Company has been organized by Mahlon Caffee, D. W. Hewitt, J. P. Leggett and others to develop mineral properties.

Mo., Joplin.—United Lehigh Mining Co. incorporated with $150,000 capital stock by George T. Fletcher, Fred L. Crouch, David A. Gilmore and others.

Mo., St. Louis.—Marion Mining Co. incorporated with $30,000 capital stock by James Thursby, C. W. Dice, Gustave A. Robyn and others.

Okla., Granite — Granite. — American Red Rose Granite Co. incorporated with $500,000 capital stock by Thomas L. Eggleston, A. F. Schwartz and J. B. Lenertz.

Okla., Vinita.—William Branch Mining Co. increased capital stock from $24,000 to $50,000.

Tenn., Mt. Pleasant — Phosphate. — Kentucky-Tennessee Phosphate Co. incorporated with $500,000 capital stock; president, Ed Stridecock of Richmond, Va.; vice-president; John H. Carpenter; treasurer, James C. Bradford; secretary, Robin Jones; each of Nashville, Tenn.

Tex., San Saba—Marble.—San Saba Marble Quarry Co. incorporated with $50,000 capital stock by C. R. Green, W. L. Swinney, W. L. Steele and others.

Va., Esmont—Slate.—Albemarle Slate Corporation chartered with $2,500,000 capital stock; president, George Norris; vice-president, Albert S. Rickwood; secretary-treasurer, William S. Lane, all of New York.

MISCELLANEOUS CONSTRUCTION

Ark., Prairie County — Levee.—Directors White River Levee District, W. T. Trice, president, Cotton Plant, Ark., will construct levee containing about 60,000 cubic yards across Jackson's Bayou in Prairie county; bids received until April 24. (See "Machinery Wanted.")

Tenn., Memphis—Subway.—J. H. Weatherford, City Engineer, approved plans submitted by Nashville, Chattanooga & St. Louis Railway, H. McDonald, chief engineer, Nashville, Tenn.; Southern Railway, D. W. Lum, chief engineer, Washington, D. C.; St. Louis & San Francisco Railroad, F. G. Jonah, chief engineer, St. Louis, Mo.; Union Railway and Memphis Union Station Co. for subway to be constructed at Rayburn Blvd. and Railroad Ave.; structure is to be of reinforced concrete throughout; will cover Rayburn Blvd. for distance of 108 feet, giving clearance beneath of 14½ feet; width between side walls will be 60 feet and between curbs 44 feet; sidewalks will be 8 feet wide each; space allowed for driveway and street-railway tracks, about 21 feet on each side of concrete center columns; understood that bids will be invited at once and actual work begin about ay 15. (Previously mentioned.)

Tex., Aransas Pass—Channel and Dock.—Fort Aransas Channel & Dock Co. incorporated with $75,000 capital stock by Daniel W. Doty, Henry Brooke and S. J. Conn.

Tex., Corpus Christi—Wharf.—City voted issuance of $50,000 of bonds for construction of wharf 200 feet wide and 1000 feet long, connecting with 12-foot channel to city to be dredged by Government; wharf is to have 600 feet of apron, with warehouses. Address City Commissioners. (Previously mentioned.)

Tex., Eastland—Dam and Spillway.—City will construct earth dam and spillway; approximate quantities: Embankment in dam, 2800 cubic yards; excavation in spillway, 6300 cubic yards; excavation and back filling in muck ditch, 800 cubic yards; rip-rap, 500 cubic yards; slope wall masonry, 50 cubic yards; bids opened March 27; Charles Pettit, Jr., City Secretary; John Mead, Fort Worth, Tex., is engineer. (See "Machinery Wanted.")

Tex., Fort Worth.—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., will, it is reported, construct underground crossing at 9th St, costing $16,000.

MISCELLANEOUS ENTERPRISES

Ark., Corndaу—Laundry. — Majestic Steam Laundry, J. W. Akin, president, will establish laundry recently noted; machinery purchased; contract awarded to Halter Bros., Conway, for erection of 25x50-foot brick building.

D. C., Washington — Laundry. — Sanitary Laundry Co. purchased through Boss & Phelps, 910 14th St. N. W., building at 11th and V Sts. N. W., and will improve at cost of $15,000.

Ga., Macon—Contracting.—Shaw Bros. Co. incorporated with $15,000 capital stock by David Shaw, M. E. Shaw and H. K. Burns.

Ga., Thomasville—Cleaning Plant.—B. Edwards, owner Thomasville Steam Laundry, will build dry-cleaning plant; building will be of brick, 25x25 feet; machinery, to be operated by electricity, has been ordered.

Ky., Glasgow — Laundry.—Glasgow Crown Laundry Co. incorporated with $2400 capital stock; F. N. Bradford, president; E. F. Jewell, vice-president; Geo. J. Ellis, secretary-treasurer; will erect building; plans not decided; proposals to be opened about August 1; now operating in rented building.

Ky., Lexington—Contracting.—Central Construction Co. incorporated with $10,000 capital stock; R. R. Harting, president; J. M. Kelley, vice-president; W. A. Fitzgerald, secretary-treasurer; Howard K. Bell, general manager; will do general contracting; also deal in crushed stone, concrete and other building materials.

Ky., Louisville — Contracting. — Iles Contracting Co. incorporated with $3000 capital stock by Charles Stilger, J. T. Iles and W. L. Herbold.

Ky., Louisville — Contractors. — Southern Asphaltoilene Road Co., 510 Lincoln Bank Bldg., increased capital stock from $30,000 to $100,000; Walter E. Glover, president; L. O'Donnell, vice-president; R. B. Tyler, secretary and manager; is erecting plant, of mill construction, to cost $30,000; use machinery for all kinds of rock work; daily capacity, 1000 yards crushed stone, 100 yards building stone, 1000 feet curbing.

La., New Orleans—Newspaper Plant.—The States has arranged for 10-year lease of five-story building at 604-606 Canal St. and will remodel and equip as newspaper plant; contracts are being drawn for high-speed sextuple printing press, which will supplement present press facilities; new machine will have capacity of from 18,000 to 72,000 pages an hour, printing from 4 to 48 pages at one time; pressroom will be tiled; front of building will be of plate glass; tesselated vestibule leading from street; ground floor will be occupied by presses and business office, second by editorial and repertorial offices, and third, fourth and fifth by composition, stereotyping and other departments of the paper; plans for reconstruction of building are being prepared by Emile Weil of New Orleans.

Md., Baltimore—Garage.—J. S. Ditch, Mt. Royal and North Aves., awarded contract to Charles L. Stockhausen, National Marine Bank Bldg., Baltimore, to erect one-story garage at Mt. Royal Ave. and McMechen St.; 96x111 feet; fireproof construction; cost $15,000; plans by C. M. Anderson, 324 N. Charles St., Baltimore. (Recently mentioned.)

Md., Baltimore—Amusement Park.—Jahn Engineering Co., Philadelphia, Pa., has contract for various improvements at Hollywood Park, Back River, including carousel, racing coaster, casino seating 3000, dance hall to be built over river, etc.; park is to be illuminated by 100,000 incandescent lights, have new walks, etc.

Md., Baltimore—Tin Receptacles, etc.—O. A. Hartlove Company incorporated with $25,000 capital stock by Owen A. Hartlove (president Hartlove Can Co.), 764 Columbia Ave.; Irvin M. Hartlove and Nicholas L. Turner.

Md., Baltimore—Steamship Line.—Virginia-Columbia Steamship Co. incorporated with $250,000 capital stock by Richard B. Fentress, Norfolk, Va.; William Erwin Bonn, 44 Central Savings Bank Bldg., and John Leiper Winslow, 110 E. Lexington St., both of Baltimore.

Mo., Joplin—Grain Elevator.—J. W. Boyd Grain Co. will erect combined elevator, warehouse and cornmeal plant at Railroad and Hill Sts.; estimated cost $12,000.

Mo., Kansas City—Construction.—Wyandotte Construction Co. incorporated with $50,000 capital stock by George Townsend, Ward S. Arnold and W. B. Johnson.

Mo., Kansas City—Construction.—J. W. McMurry Construction Co. incorporated with $50,000 capital stock by J. W. McMurry, A. L. McMurry and F. B. Faubion.

Mo., St. Louis—Iron and Steel.—Hempstead Structural Steel Co., 724 Roe Bldg., incorporated with $15,000 capital stock; to engage in structural and ornamental iron building work; awarded contract to Godfrey & Hirsch, St. Louis, for erection of 75x114-foot building of ordinary construction; plans by Clymer & Drischler, Wainwright Bldg., St. Louis; E. A. Beinke, president; F. L. Beinke, vice-president; Ernest J. Moser, secretary-treasurer.

N. C., Laurel Hill.—Mercantile & Machine Co. incorporated with $10,000 capital stock by Ralph Morrison, A. J. Campbell and J. T. Flythe.

N. C., Wilmington—Garage.—D. L. Gore awarded contract to R. H. Brady, Wilmington, to erect garage; one story; four rooms; brick; 40x100 feet; ordinary construction; cost $1000; plans by H. E. Bonitz, Wilmington.

N. C., Winston-Salem—Contracting.—Caldwell Company incorporated with $50,000 capital stock by F. D. Caldwell, president; T. J. Caldwell, vice-president.

N. C., Asheville—Laundry.—F. M. Weaver will erect addition to laundry; cost $5000.

Tenn., Knoxville — Construction. — Mann Construction Co. incorporated with $25,000 capital stock to contract for road construction. Horace Mann is president and general manager; J. Wylie Brownlee, secretary-treasurer.

Tenn., Nashville—Hardware.—Gray & Dudley Hardware Co. decided to increase capital stock from $850,000 to $1,000,000.

Tex., Celina—Hardware.—V. L. Patrick Hardware Co. incorporated with $10,000 capital stock by V. L. Patrick, Joseph Patrick and G. S. Patrick.

Tex., Fort Worth.—Electroplating, etc.—Gamer Company reported to add galvanizing plant and electroplating department.

Tex., Fort Worth—Fire-alarm System.—City is preparing to install police and fire-alarm underground system in business district; cable to be laid in conduits; cost $30,000; to be completed by September. Address The Mayor.

Tex., Paris — Laundry. — John W. Gray

Laundry Co. will erect laundry building; contract recently noted awarded to Caviness & Harrison; brick structure, with asphalt roof; 40x100 feet; cost $5000; machinery purchased; to be in operation by May 1.

Va., Petersburg—Publishing.—Index-Appeal Publishing Co. incorporated with $75,000 capital stock; Walter Edward Harris, president; Emma Powers Harris, vice-president; R. D. Van Alstin, secretary-treasurer.

MISCELLANEOUS FACTORIES

Ala., Bessemer—Implements.—International Harvester Co., Chicago, Ill., is reported to have purchased 10 acres of land as site for erection of implement plant costing over $100,000.

Ala., Calcis—Lime.—W. C. Shackelford and Frank Stollenwerck purchased Calcis Lime Works, including limestone properties, and will operate; will make various improvements, including construction of addition kilns, which will provide for daily capacity of 300 barrels of lime; cost of betterments about $50,000; later may install plant for crushing rock.

Ala., Birmingham—Triplanes. — Zell Aeromobile Co., 625 Woodward Bldg., has not decided on location of plant; may decide by April 5, and install complete equipment for manufacture of Zell triplanes; will have testing field near plant; Robert Ross Zell, president; H. G. McLaws, vice-president; J. A. Ellison, secretary-treasurer; Robt. R. Zell, manager. (Recently noted incorporated with $500,000 capital stock.)

Ala., Birmingham — Artificial Limbs. — J. Stephens will establish artificial-limb factory at North Birmingham.

Ark., Berryville.—E. Leach is promoting establishment of broom factory.

Fla., Gainesville—Creosoting Plant.—Atlantic Coast Line Railroad, E. B. Pleasants, chief engineer, Wilmington, N. C., will establish, it is reported, creosoting plant in North Gainesville to have capacity of 1,500,000 crossties annually; estimated cost, $250,000.

Fla., Tarpon Springs—Cigars.—M. Stachelberg & Co., Edgar J. Stachelberg, president, Tampa, Fla., will expend $30,000 to establish cigar factory at Tarpon Springs; building will be three stories; brick; 50x150 feet. (Recently mentioned under Tampa, Fla.)

Ga., Buford—Tannery.—Bona Allen, Inc., Bona Allen, president, has contracted for materials, labor, etc., for new brick mill-construction tannery building recently noted.

Ga., Jasper—Mounments, etc.—Jasper Monumental Works organized with J. W. Howell, president; R. L. Callahan, vice-president; L. W. Prather, general manager; J. H. Little, secretary-treasurer; will manufacture marble and granite monuments, headstones and markers.

Ky., Louisville.—Smoke Preventer, etc.—National Smoke Preventer (fuel economizer), Knoxville, Tenn., recently noted incorporated (as "Knoxville Smoke Consumer Co.") with $25,000 capital stock, will continue manufacture of Long's automatic smoke preventer and fuel economizer; plant equipped; T. I. Stephenson, president and treasurer; W. P. Davis, vice-president and secretary.

Ky., Louisville — Bakery. — American Bakery Co. incorporated with $75,000 capital stock by C. S. Budge, Henry Fruechtenicht and Daniel Hallenberg.

Ky., Mayfield — Capsules.—Hinkle Capsule Co. incorporated with $5000 capital stock by Leon Evans, R. O. Dossett and H. V. Mullins.

Ky., Paducah — Buttons. — Pioneer Pearl Button Co., Muscatine, Ia., will not establish peal-button factory. (Recently report an error.)

La., Angola.—Board of Control, State Penitentiary, W. W. Heard, president, Baton Rouge, La., awarded contract to Payne & Joubert, New Orleans, La., for State Farm sugar mill building, including machinery, etc., with exception of nine-roller mill and crusher; contract for mill and crusher let to Bancroft, Ross & Sinclair of New Orleans, at $66,900; building will be of structural steel and will be equipped to produce 1500 tons of granulated sugar daily; electric-light plant, oil tank, etc., are also included in machinery; total cost $345,257. (Recently mentioned.)

La., New Orleans—Paints, Oils, etc.—Southern Tarpenoola Co. incorporated with $5000 capital stock.

La., New Orleans—Reversible Day Book.—Adam O. Hebert, Houma, La., is promoting organization of Hebert Reversible Day Book Co.

La., New Orleans — Brewery. — National Brewing Co. has completed organization, electing C. A. Wagner, president; capital stock $250,000.

Md., Baltimore—Automobiles.—C. E. Eckenrode, 16-18 N. Carrollton Ave., awarded contract to Charles L. Stockhausen, National Marine Bank Bldg., Baltimore, to erect carriage and automobile factory at 16-20 N. Carrollton Ave.; building will have marble front; paint shop on third floor.

Md., Baltimore—Automobile Trucks.—Lord Baltimore Motor Car Co., J. Luntz, Jr., proprietor, office, 1523 Retreat St., will be incorporated with $100,000 capital stock to manufacture automobile trucks.

Md., Baltimore—Tables. — Broadbent Table Co. incorporated with $35,000 capital stock by Stephen M. Broadbent (vice-president Felippe A. Broadbent Mantel Co.), Aliceanna, East Falls Ave. and Fleet Sts.; Lyttleton B. Purnell and Francis H. Dunham.

Miss., Brookhaven — Syrup. — Brookhaven Syrup Co. organized to establish syrup plant.

Miss., Osyka—Brooms. — C. A. Anderson, Henderson, Ky., will establish broom factory.

Miss., Gulfport—Turpentine Plant.—Pace & Morgan, Mobile, Ala., leased property on Cat Island from N. V. Boddie for turpentine purposes; consideration, $10,500.

Mo., Kansas City—Gloves.—Boss Manufacturing Co., New York, has, it is reported, leased building on Broadway, between 7th and 8th Sts., and will equip for manufacturing cloth gloves.

Mo., Kansas City—Monuments.—Kansas City Granite & Monument Co. incorporated with $25,000 capital stock by S. D. J. Smith, A. W. Smith and T. S. Reed.

Mo., Kansas City—Darning Device.—Thornton Sanitary Darning Device Co. incorporated with $50,000 capital stock by C. W. Thornton, J. L. Williams and W. A. Snell.

Mo., St. Louis—Hats, etc.—Galluher-Good Manufacturing Co. incorporated with $10,000 capital stock by Joseph Galluher, Louis Good and Ely Good.

Mo., St. Louis—Shirtwaists. — Friedman-Zatlin Manufacturing Co., 704 N. 4th St., succeeds L. Friedman & Company; daily capacity, 50 dozen shirtwaists; Levi Friedman, president; Charles S. Zatlin, vice-president and treasurer; Sam Friedman, secretary. (Recently reported incorporated with $25,000 capital stock.)

N. C., Henderson—Publishing.—Gold Leaf Publishing Co. (recently reported incorporated with $10,000 capital stock) will publish weekly newspaper; R. S. McCoin, president; H. T. Powell, vice-president; P. T. Way, secretary, treasurer and manager.

Okla., Britton — Soda Fountains, etc. — Southwestern Fountain Co., Caleb Smith, president, 700 W. 2d St., will erect plant to manufacture soda fountains and bank fixtures; 300x300 feet; mill construction; date of opening bids not set; cost of machinery (mainly purchased) $12,000. (Previously noted.)

Okla., Okmulgee—Oil Refinery.—Creek Refining Co. increased capital stock from $40,000 to $75,000.

Okla., Shawnee — Chocolate. — Colonial Chocolate Co. incorporated with $100,000 capital stock by J. H. Shivley and O. Brunka, South Houston, Tex.; C. N. Feamster and P. P. Stacy, Shawnee, Okla.

Okla., Tulsa—Tents and Awnings.—Tulsa Tent & Awning Co., 403 E. 2d St., will manufacture tents and awnings; daily capacity, 10 to 12 awnings and 15 tents; at present will occupy rented building; later, contemplates erection of plant; James Constantine, president and treasurer; William Crowder, vice-president; Olive Constantine, secretary. (Recently noted incorporated with $5000 capital stock.)

S. C., Charleston—Cigars.—Herbert Follin of Follin-Wingo Company, East Bay and Vernon Sts., will erect cigar factory on Columbus St.

S. C., Georgetown—Organs.—Phenix Furniture Co. will erect organ factory; has begun construction.

Tenn., Harriman — Tannery. — Harriman Tannery Co. incorporated with $100,000 capital stock by S. P. Blair, W. F. Hudson, S. P. Sparks, T. A. Wright and Fred G. Haggard.

Tenn., Memphis—Medicines.—W. T. Rawleigh Medical Co., Freeport, Ill., will erect plant for manufacturing proprietary medicines, extracts, spices, etc.; building will be about 85x175 feet, of brick or concrete, and five or six stories high; expenditure about $75,000; plant will be enlargement of present Memphis branch.

Tenn., Memphis—Bakers' Supplies.—Memphis Bakers' Supply Co. incorporated with $5000 capital stock by M. E. Gillis, G. B. Malone, M. M. Porter and others.

Tex., Houston — Overalls, etc. — Cyrus W. Scott Manufacturing Co. increased capital stock from $50,000 to $100,000.

Tex., Lyons—Charcoal Plant.—John L. Lyon and Ernest Langhammer, Somerville, Tex., and Charles Dippel, Brenham, Tex., will establish charcoal plant; timber rights acquired.

Tex., Temple.—Bruner & Patterson Co. incorporated with $10,000 capital stock by C. E. Bruner, J. H. Patterson, E. W. Patterson and C. J. Davis.

Tex., Waco—Printing.—E. W. Marshall and B. L. Scott will erect building to be equipped and occupied by Hill Printing Co.; structure will be 80x100 feet; one story and basement; front of plate glass.

Va., Kenbridge — Gas. — Kenbridge Gas & Light Co., F. W. Clark, president, has erected and equipped plant to produce acetylene gas. (Recently noted incorporated with $5000 capital stock.)

Va., Petersburg—Dairy.—C. T. Rice, manager Violet Bank estate, awarded contract to Mr. Keller for erection of fireproof dairy building; cost $5000. (Recently noted.)

Va., Richmond—Artificial Limbs.—E. M. Peters Artificial Limb Co. incorporated with $10,000 capital stock; E. M. Peters, president; M. E. Peters, vice-president; L. L. Duggan, secretary-treasurer.

Va., Richmond—Drug Specialties.—Nelson Manufacturing Co. awarded contract to R. M. Anderson & Co. to erect factory building; two stories and basement; 40x70 feet; mill construction; hot-water heat; cost $5000; plans by W. Wylie Anderson, Richmond. (Recently noted.)

Va., Lynchburg — Chemicals. — Crescent Chemical Co. incorporated with $15,000 capital stock; E. L. Landrum, president; E. H. Mayfield, vice-president; G. C. Poplin, secretary.

Va., Norton—Bakery.—M. Cousins will rebuild Norton Bakery, reported burned at loss of $5000.

Va., Richmond—Novelties.—Success Novelty Co. incorporated with $10,000 capital stock; T. N. House, president, Richmond; G. C. Green, vice-president, Weldon, N. C.; J. E. Kennedy, secretary-treasurer, Richmond.

Va., Waynesboro—Creamery. — Waynesboro Co-operative Creamery incorporated with $10,000 capital stock; J. W. Paul, president, Staunton, Va.; W. F. Gilkeson, vice-president, Fishersville, Va.; Fred Driver, secretary, Waynesboro, Va.

W. Va., Charleston—Asphalt.—Fibred Asphalt Co. incorporated with $100,000 capital stock by E. B. Dyer of Charleston, George A. Henderson, William E. Mohler, H. F. Hanks and others, all of St. Albans, W. Va.

W. Va., Parkersburg—Art Ware.—Lessed Art Ware Co. awarded contract to Baker & Fouse of Parkersburg to erect factory building; brick and concrete; 40x130 feet; raw material for manufacture of art ware will be procured from company's property on South Side. (Other details reported lately.)

W. Va., Parkersburg—Paper Boxes.—West Virginia Paper Products Co. awarded contract to Citizens' Concrete Co., Parkersburg, for erection of two-story concrete building; 40x85 feet; hot-water heat; cost $3000. (Recently noted.)

RAILWAY SHOPS, TERMINALS, ROUNDHOUSES, SHEDS, ETC.

Ala., Anniston. — Louisville & Nashville Railroad, W. H. Courtenay, chief engineer, Louisville, Ky., will make various improvements, including enlargement of roundhouse and installation of stationary boiler.

Tex., Fort Worth.—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., has made following appropriations for improvements: $4500 for steel water tank, cranes and pipe lines at Kopperl, Tex.; $6000 for steel water tank and equipment at Justin, Tex.; $7300 for two water cranes at McGregor, Tex.; $9000 to reduce grade east of Silsbee, Tex., and to replace bridges; $2400 for frame autogenous welding plant and trackage at Cleburne, Tex. (Company was recently reported to expend about $750,000 for improvements in Texas, Oklahoma and Louisiana.)

W. Va., Sabraton.—Morganton & Kingwood Railroad Co., J. K. Monroe, chief engineer, will rebuild machine shop; plans not determined. (Recently reported burned at Morgantown, W. Va.)

ROAD AND STREET WORK

Ala., Birmingham.—Jefferson County Board of Revenue awarded contract to C. P. Persons of Birmingham at 40 cents per feet for cherting and slagging Adamsville and Gintown Rd. distance of 1½ miles.

Ala., Demopolis.—City awarded contract to E. B. Barnes, Demopolis, for constructing 10 blocks (each 300 feet) of cement sidewalks in residence section; Jesse G. Whitfield, engineer in charge. (Recently noted.)

Ala., Gadsden.—City will construct 2531 square yards cement sidewalk, 191 square yards driveways, 2074 linear feet curbing, 300 cubic yards excavation and 4 catch-basins; bids received until April 3; Charles L. Marsh, City Engineer. (See "Machinery Wanted.")

Ala., Seale.—Russell county will grade road from Seale to Columbus, Ga., 15¼ miles; bids received until April 3; H. T. Benton, judge of probate. (See "Machinery Wanted.")

Ala., Troy.—City will receive proposals until April 3 for construction of concrete pavement on sidewalks on North Three Notch and West College Sts.; approximately 2000 square yards; G. J. Hubbard, Acting City Clerk. (Recently noted.) (See "Machinery Wanted.")

Fla., Jacksonville.—Duval county will resurface St. Johns Ave. from city limits to McGirts Creek Bridge, about 27,000 square yards, with asphalt-macadam; bids received until April 28; Gail L. Barnard, County Engineer. (See "Machinery Wanted.")

Fla., Jacksonville.—City's plans for paving and curbing Digman Park include 1100 running feet of hexagon tile sidewalks, 6 feet wide with 3x6 concrete curb; contract recently noted awarded to F. J. Trout, Jacksonville, at $1.27 per square yard for paving, and 9 cents per foot for curbing; grading by Philip Prioleau, City Engineer.

Fla., St. Augustine. — City contemplates paving improvements; John T. Campbell, 142 Bay St., is on street and lane committee.

Fla., Tampa.—Hendry & Knight Company, Tampa, advises Manufacturers Record that paving work recently noted to be done by the company is simply part of an uncompleted city contract; Hendry & Knight Company supplying funds (to be refunded) for resumption of work in vicinity of Hendry & Knight terminals; cost of paving, $30,000; no advertising for bids contemplated; probable contractor, Georgia Engineering Co., Augusta, Ga.

Ky., Louisville.—Board of Public Works awarded contract to L. R. Figg Company for recurbing both sides of Third Ave. from Lee to Brandeis St., and east side of 2d St. from College to Breckinridge St.; to L. W. Hancock Company for recurbing both sides of Third Ave. from A to Lee St.; total cost $3600.

Ky., Bowling Green.—Fiscal Court appropriated $33,600 for road improvements in Warren county for 1911; amount is equally divided among eight magisterial districts, each district to receive $4200. Address County Commissioners.

Ky., Pineville.—City will macadamize Kentucky and Virginia Aves. and Pine St.; work begun; W. E. Barrett, Middlesboro, Ky., is superintendent.

La., Newellton.—Town will construct 1900 feet of brick sidewalk, four and five feet wide; bids received until April 6; L. Elgutter, clerk. (See "Machinery Wanted.")

Md., Baltimore.—B. T. Fendall, City Engineer, submitted specifications to Board of Awards for paving of following streets: With vitrified blocks, O'Donnell, Luzerne and Courtland Sts. and Hargrove Al.; with granite blocks, Fremont Ave., Barre and Lombard Sts.; with sheet asphalt, asphalt blocks, bitulithic or vitrified blocks, Edmondson, Fulton and Carrollton Aves.; Mulberry, Oliver, High, Aisquith and Hollins Sts.; Board of Awards will open bids April 5. (See "Machinery Wanted.")

Md., Towson.—Baltimore county will pave Highland Ave. and Gough St., Highlandtown, with vitrified brick, and construct sewer from Baltimore and 3d Sts. to Fayette St., as per plans, Highlandtown; will receive bids until April 6; Henry G. Shirley, County Roads Engineer. (See "Machinery Wanted.")

Miss., Meridian.—C. C. Dunn, chairman Good Roads Commission, Lauderdale county, advises Manufacturers Record that $200,000 is available for road construction in District No. 1; novaculite paving; bids to be opened April 4 for about 21 miles; 20 miles additional to be let soon; W. P. Moore, engineer in charge.

Mo., Kansas City.—J. C. Nichols has contract to construct two miles of tarvia macadam pavement between 55th and 59th Sts., Wornall Rd. and Summit St.

Mo., Webb City.—City awarded contract to M. Gilliloz, Box 244, Pierce City, Mo., for construction of 35,319 square yards of sidewalk.

N. C., Andrews.—City will issue $20,000 of

bonds for street improvements, water-works and electric lights; H N. Wells, Mayor.

N. C., Fayetteville.—City will receive sealed bids April 3 for paving recently mentioned; light traffic; cost $35,000; C. B. Ledbetter, chairman Street Committee; H. J. McBule, City Clerk. (See "Machinery Wanted.")

N. C., Kernersville.—City awarded contract to C. M. Thomas & Co., Winston-Salem, N. C., to complete cement sidewalks on principal streets.

N. C., Murphy.—Murphy Township Highway Commission, W. H. Woodbury, president, will issue $150,000 of bonds for building and macadamizing roads; $50,000 to be expended at once.

Okla., Oklahoma City.—City will receive bids until April 11 for removing retaining wall back to property line, do excavation and construct sidewalk full width in front of lots 21 and 22, block 19, orininal plat of Oklahoma City; Bob Parman, City Clerk. (See "Machinery Wanted.")

S. C., Columbia.—City will construct six or more blocks of paving; each block to contain 3150 square yards of paving and 884 linear feet of steel-bound concrete curbing, together with extension of concrete sidewalks and vitrified-pipe drains; John McNeal, City Engineer. (See "Machinery Wanted.")

Tenn., Memphis. — City Commissioners awarded following contracts at total of $170,516.45 for paving about six and a quarter miles of streets as follows: R. C. Houston at $22,556.97 for tar macadam paving; H. P. Streicher & Co. at $22,148.93 for tar macadam paving; S. W. Johnson at $37,259.10 for tar macadam paving; E. J. Wetterstrom at $20,227.50 for creosoted wood-block paving; F. D. Harvey & Co. at $47,772.05 for bituminous macadam and tar macadam paving; Roach & Mannigan at $20,411.40 for brick paving; several contracts for drain pipes, culverts and other minor improvements to be made in connection with street work were also awarded; J. H. Weatherford, City Engineer. (Recently mentioned.)

Tenn., Morristown.—Hamblen County Pike Commission, J. N. Fisher, chairman, contemplates voting in April on $25,000 bond issue for resurfacing and repairing 25 miles of macadam road, including culverts, drainage and replacing present wooden bridges with concrete structures.

Tex., Brady.—McCulloch county voted issuance of $75,000 of bonds for road construction. Address County Commissioners. (Recently mentioned.)

Tex., Comanche.—Commissioners' Precinct No. 1 of Comanche county defeated $100,000 bond issue for road construction; another election will probably be called. Address County Commissioners. (Recently mentioned.)

Tex., Crockett.—Houston county voted issuance of $150,000 of bonds for road construction. Address County Commissioners.

Tex., Conroe.—Montgomery county voted bond issue for road construction. Address County Commissioners.

Tex., Farmersville.—City will vote April 11 on issuance of $10,000 of bonds for street improvements. Address The Mayor.

Tex., Galveston.—City will relay about 1100 square yards vitrified brick pavement along Avenue D from 25th to 29th St.; bids received until April 6; V. E. Austin, Commissioner of Streets and Public Property. (See "Machinery Wanted.")

Tex., Greenville.—City will construct 40,917 linear feet of street paving on Johnson, Wesley, Lee and other streets; Leon Dalton, engineer, Dallas, Tex., will be in charge. (City recently reported to expend $300,000 for street paving.)

Tex., Greenville.—City awarded contract to Stubbs & Gregory, Dallas, Tex., to construct concrete sidewalks in 10 improvement districts and to Hank Gaughen of Greenville to construct concrete sidewalks in improvement district.

Tex., Goldwaite.—Mills county will vote April 25 on issuance of $50,000 of bonds for road construction. Address County Commissioners.

Tex., Houston.—Harris county will pave Washington St. with brick from old city limits to Houston Heights Boulevard, Battle Ground Rd. from Deer Park to Lynchburg Ferry, and four and a half miles of Cedar Bayou, Crosby and Houston Rd.; Howe & Wise, County Engineers; John B. Ashe, County Auditor. (See "Machinery, etc., Wanted.")

Tex., Port Bolivar.—Galveston county will grade and shell with mud or clam shell county roads in and from Port Bolivar, about six miles, and construct culverts and bulkheads along said roads; bids received until April 3; John M. Murch, County Auditor, Galveston, Tex. (See "Machinery Wanted.")

Tex., Sweetwater.—City awarded contract for 11 blocks of street paving. Address The Mayor.

Va., Farmville.—Town Council awarded contract to pave Main St. with bitulithic; estimated cost $14,000. Address Town Clerk. (Recently mentioned.)

Va., Monterey.—State Highway Commission, Richmond, Va., is considering construction of three miles of model road in Highland county; P. St. J. Wilson, State Highway Commissioner, Richmond, Va.

Va., Portsmouth.—Local Board of Improvements of Seventh Ward, D. F. Appenzeller, chairman, will improve South St.; bids will be received until March 31; Bascom Sykes, engineer, 510 Middle St., Portsmouth. (See "Machinery Wanted.")

Va., Marion.—Smyth county will vote May 2 on issuance of $250,000 of bonds for road improvements. Address County Commissioners.

Va., Richmond.—City will receive bids until March 28 for certain granolithic curbs and gutter, and granite curbing and granite spall gutters as per list on file in office of Charles E. Bolling, City Engineer; also for laying certain granolithic sidewalks and grading and paving certain alleys. (See "Machinery Wanted.")

Va., Windsor.—City will construct about 400 yards concrete sidewalk; bids to be received until April 3; C. L. Griffin, Town Clerk. (See "Machinery Wanted.")

W. Va., Union.—Monroe county will improve roads in Red Sulphur, Springfield, Union, Sweet Springs, Second Creek and Wolf Creek districts; contracts will be awarded in April; J. C. McClaugherty, County Road Engineer. (See "Machinery, etc., Wanted.")

SEWER CONSTRUCTION

Ark., Cummins.—Board of Penitentiary Commissioners, John H. Page, secretary, Little Rock, Ark., contemplates installation of sewer system at State convict farm. (See "Electric-light and Power Plants.")

Ark., Little Rock.—City Council passed ordinance appropriating $13,500 for Improvement District No. 157 for building of storm sewer and bridge across Swagerty Branch; also ordinance appropriating $4000 for building of storm sewer from 7th and Ferry Sts. to town branch on E. 3d St.; E. A. Kingsley, City Engineer.

Fla., Pensacola.—Board of Bond Trustees, John A. Merritt, chairman, will probably open bids about May 2 for construction of sewers and drains ranging in size from 66 to 8 inches; $100,000 is available; George Rommel, Jr., Pensacola, is engineer in charge. (Recently mentioned.)

Ga., Barnesville.—City will vote April 18 on issuance of $50,000 for extension of sewer system, etc. Address The Mayor. (See "Water-works.")

Ky., Dawson Springs.—City has engaged W. A. McDonald, Central City, Ky., as engineer to make surveys and prepare plans for sanitary sewer system; amount available, $10,000; J. B. Rice, secretary to Sewer Commission. (Recently noted.)

Ky., Louisville.—C. T. McCracken & Co., Columbus, O., are lowest bidders at $10,559.20 for construction of Cedar St. sewer; at $2207.60 for construction of Fourth Ave. sewer, and at $3510.43 for construction of 28th St. sewer. Work is as follows: 4th St. sewer, 565 feet of 24-inch pipe sewer, in trench from 4 to 12 feet deep, and 35 cubic yards of concrete; 28th St. sewer, 1280 feet of pipe sewer from 15 to 24 inches in diameter, in trench from 6 to 12 feet deep, and about 90 cubic yards of concrete; Cedar St. sewer, 710 feet of 60-inch concrete sewer, in trench from 13 to 14 feet deep, and about 375 cubic yards of concrete. P. L. Atherton, chairman Sewerage Commission. (Call for bids recently noted.)

Md., Baltimore. — Board of Awards will open bids April 19 for furnishing and building sewage screens for sewage-disposal works; Calvin W. Hendrick, chief engineer Sewerage Commission, American Bldg. (See "Machinery Wanted.")

Md., Baltimore.—Board of Awards awarded contract to Charles Beaven Clark & Co., Huntington Ave. and 31st St., Baltimore, at $83,246.30 to construct storm-water drains.

Md., Baltimore.—City Council passed ordinance authorizing submission at May election of $10,000,000 sewerage loan; Peter Leary, Jr., chairman Sewerage Commission.

Md., Easton.—City will construct sewer system and disposal plants; bond issue of $40,000 recently noted voted; Clyde Potts, 30 Church St., New York, engineer; Martin M. Higgins, president Sewer Commission. (See "Machinery Wanted.")

Md., Towson.—Baltimore county will construct sewer from Baltimore and 3d Sts. to Fayette St., Highlandtown, Md.; bids received until April 6; Henry G. Shirley, County Roads Engineer. (See "Machinery, etc., Wanted.")

Miss., Meridian.—City will construct concrete storm sewer on Twenty-sixth Ave., between D and A Sts., and on A St., between Twenty-sixth and Rubush Aves.; bids received until April 7; C. W. O'Leary, City Clerk. (See "Machinery Wanted.")

N. C., Red Springs.—City has engaged White & Platt, Durham, N. C., as engineers in charge of construction of sewer system; surveys are completed; plans to be made at once. (See "Water-works.")

N. C., Dunn.—City has employed White & Platt, Durham, N. C., to prepare plans for sewerage.

N. C., Winston-Salem.—Guy Hinshaw, City Engineer, is preparing plans and specifications for sanitary sewer system to contain 1200 feet of 8 and 10-inch piping.

Okla., Duncan.—City will construct 38,385 feet of 8, 10, 12 and 15-inch vitrified sewer pipe; to include sanitary main, laterals and storm sewer, 6 flush tanks, 110 manholes, 16 lampholes and disposal plant; average cut 8 feet, varying from 3 to 15 feet; work will begin April 1 and be completed in 60 working days; W. L. Benham, 714 Campbell Bldg., Oklahoma City, Okla., supervising and contracting engineer. (Previously noted to vote $38,000 bond issue.)

S. C., Rock Hill.—Sewerage Commission, J. B. Johnson, chairman, will receive bids until April 25 on construction of recently-noted sanitary sewer system; approximately 16 miles of 6, 8, 10 and 12-inch sewers; 215 manholes, 35 flush tanks, etc.; disposal plants bids to be received later; Thos. W. Cothran, engineer, 119 Hampton St., Rock Hill; all correspondence to be addressed to engineer. (See "Machinery Wanted.")

Tex., Bryan.—City will install sewer system, including purification plant; 12-inch main line with 10-inch, 8-inch and 6-inch laterals; cost $10,000; A. B. Carson, City Engineer; no contracts. (Recently noted.)

Tex., Honey Grove.—Honey Grove Sewer Co. incorporated with $10,000 capital stock by J. H. Whattley, Sam G. Duff and F. M. Kemp.

Tex., Round Rock.—Round Rock Sewerage Co. will install small sewerage plant; cost within $2000; was recently noted incorporated by J. A. Nelson and others. (See "Machinery Wanted.")

Va., Blacksburg.—City contemplates laying about 3.5 miles 6-inch and 8-inch sewer pipe; F. W. Eheart, Mayor. (Recently mentioned.)

W. Va., Moundsville.—City awarded contract to B. F. Sweeten & Son, Camden, N. J., at $121,189.80 for construction of system of sanitary and surface sewerage, comprising 24 miles of sewers, varying in size from 6 to 36 inches in diameter, together with 420 manholes, 6 lampholes, 8 flush tanks, 115 inlets and catch basins, and 22 tons of cast-iron pipe; $170,000 bond issue voted; Charles E. Collins, consulting engineer, Drexel Bldg., Philadelphia, Pa.; J. M. Williamson, Mayor. (Recently mentioned.)

TELEPHONE SYSTEMS

Ark., Hartley.—Company has been organized with John Watkins president to construct telephone system from Athens to Hartley and Vandervoort, Ark.

Ga., Cuthbert.—Cotton Belt Telephone Co., C. J. O'Farrell, Jr., general manager, purchased Carnegie Telephone Co.'s system for $9500 and will rebuild 25 miles of toll line. (Recently noted as contemplating issuing $50,000 of bonds for improvements and extension to system.)

Ky., Claypool.—Claypool Telephone Co. incorporated with $1800 capital stock by John M. Willoughby, J. M. Adair, Robert Motley and others; proposes to construct telephone system from Claypool to Bowling Green, Ky., and Claypool to Halifax and Settle in Allen county.

Md., Long Green.—Long Green Rural Telephone Co. organized with O. P. Grau, president; J. M. Priegel, vice-president and treasurer; C. E. Goder, secretary.

N. C., Browns Summit.—Browns Summit Telephone Co. incorporated with $10,000 capital stock by Joe Hardie, J. L. Jones and others.

Okla., Gate.—Prairie Dell Telephone Co. incorporated by Larkin Haynes, Charles Kirkhart, S. O. Gordon, Mark Reeves and others.

Okla., Oklahoma City.—Oklahoma Home Telephone Co. incorporated with $5000 capital stock; C. E. Bishop, president; R. S. Ross, vice-president; W. L. Maupin, secretary-treasurer.

Okla., Oktaha.—Oktaha Independent Telephone Co. incorporated by J. C. Brady, H. N. Johnson, John Newberry, H. O. Duncan and others.

Okla., Rosedale.—Rosedale Telephone Co. incorporated by L. L. Yoakum of Rosedale; John T. Yoakum, Byars, Okla., and T. D. Luper, Paoli, Okla.

Tenn., Kenton.—Mason Hall Telephone Co. organized with $10,000 capital stock; T. P. Finch, president; J. B. Skinner, secretary.

Tex., Beaumont.—Beaumont Telephone Co. has let contracts and made purchases for recently-noted improvements and enlargements; C. W. Emmer, engineer in charge.

Tex., Houston.—Colorado Phone Co. purchased all local and long distance telephone systems of Pecos Valley and will expend $100,000 in coppering all lines, building new stations and constructing system to Lincoln, Tex.; properties will be consolidation of several independent companies, including Roswell Telephone & Manufacturing Co. of Roswell, Tex., and exchanges are those at and between Melrose, Fort Sumner, Texico, Clovis, etc.; Carlsbad exchanges not yet acquired, but negotiations are pending.

Tex., Winters.—Winters & Ballinger Rural Telephone Co. incorporated with $15,000 capital stock by J. O. Harrell, R. D. Colwell and Elgin Davidson.

Va., Wayland.—Copper Creek Telephone Co., H. K. McConnell, president, recently reported incorporated with $5000 capital stock, will construct 50 miles of telephone line, 25 miles to be double-wired. (See "Machinery Wanted.")

W. Va., Romney.—Romney Consolidated Telephone Co. incorporated with $25,000 capital stock by John J. Connell, G. P. Miller, J. Sloan Kuykendall and others; consolidates Martinsburg & Cumberland, Burlington and People's Mutual Telephone companies.

TEXTILE MILLS

Ala., Anniston—Hosiery.—S. C. Meade of Philadelphia, Pa., will establish knitting mill for hosiery; has purchased machinery; can be addressed care of Newton Wilson of Anniston. (Lately mentioned.)

Ga., Lagrange—Cotton Cloth.—Dunson Mills organized with $500,000 capital stock; president, J. E. Dunson; vice-president, J. M. Barnard; secretary, T. J. Thornton; will erect buildings and install 20,000 spindles, accompanying looms, etc.; architect-engineer in charge, J. E. Sirrine of Greenville, S. C.; spinning machinery and looms contracts have been awarded. (Dunson company reported in January as to organize, etc.)

N. C., Bessemer City—Sheeting, etc.—Atlas Manufacturing Co. incorporated with $100,000 capital stock by C. J. Huss, A. A. McLean and J. J. Ormond; is reorganization of Vermont Mills; has 5000 ring spindles, 100 automatic looms, etc.

N. C., Gastonia—Cotton Yarns.—Flint Manufacturing Co. will add 250 spindles with carding and combing equipment, etc.; has awarded contracts.

S. C., Greenville—Cotton Cloth.—Parker Cotton Mills Co. fully organized with $10,000,000 capital stock and Lewis W. Parker as president; controls nine mills with about 360,000 spindles and 9000 looms, as follows: Victor and Greer of Greer, Apalache of Arlington, Beaver Dam of Edgefield, Monaghan of Greenville; Olympia, Capital City, Richland and Granby of Columbia.

Tex., San Angelo—Woolen Goods.—Chamber of Commerce is negotiating with Eastern capitalists for establishment of woolen mill.

WATER-WORKS

Ark., Cummins.—Board of Penitentiary Commissioners, John H. Page, secretary, Little Rock, Ark., contemplates installation of water system, drilling deep well, etc., at State convict farm. (See "Electric-light and Power Plants.")

Ark., Gurdon.—City Council granted 30-year franchise to J. B. and J. G. Gresham to construct water-works and electric-light plant.

Fla., Jacksonville.—Board of Trustees for Water-works and Improvement Bonds will open bids on April 4 and 18 for extensive quantity of machinery, supplies, construction, etc., for electric-light plant and water-works. (See "Electric-light and Power" and "Machinery Wanted.")

Ga., Barnesville.—City will vote April 18 on issuance of $50,000 of bonds for extension of water, sewer and light systems and erec

tion of additional building for Gordon Institute. Address The Mayor.

Ga., Flowery Branch. — C. R. Parson, Mayor, states that $5000 to $6000 will be expended in construction of water-works; details not completed. (Company recently noted to be organized to construct water-works.)

Ga., Swainsboro.—City will vote April 17 on issuance of $40,000 of bonds for construction of water-works and electric-light plant. Address The Mayor.

Ky., Dawson Springs.—City Water Co., Eli Harned, manager, is proceeding with construction of water-works; 500,000 gallons daily capacity; to include 40x80x8-foot concrete reservoir; construction by owners; cost $25,000; J. W. Holmes, engineer, Paducah, Ky., recently noted to make surveys and prepare plans. (See "Machinery Wanted.")

La., Patterson.—Board of Aldermen awarded contract to Kelly & Jones, Opelousas, La., for construction of water-works previously mentioned; cost $30,000; Fred A. Jones Company, engineer in charge, Houston, Tex.

Md., Frederick.—City has engaged William H. Boardman, Philadelphia, Pa., as engineer in charge of improving water system. (Recently mentioned.)

N. C., Andrews.—City will issue $20,000 of bonds for water-works, electric lights and street improvements; H. N. Wells, Mayor.

N. C., Red Springs.—City has engaged White & Piatt, Durham, N. C., as engineers in charge of constructing water-works and sewerage system; to cost $35,000; surveys completed; plans to be made at once; pending sale of bonds, no date set for asking bids.

Okla., Duncan.—City will make extension to water-works; W. L. Benham, 714 Campbell Bldg., Oklahoma City, Okla., supervising and contracting engineer. (Previously noted to vote on $12,000 bond issue.)

Okla., Kenefick.—City will vote on issuance of bonds for construction of water-works. Address The Mayor.

Okla., Vian.—City will vote April 4 on issuance of $20,000 of bonds for construction of water-works; water to be secured from Vian Creek. Address The Mayor.

Tenn., Newport.—City will vote April 29 on issuance of $50,000 of bonds for water-works; gravity system. Address The Mayor. (Recently noted.)

Tex., Archer City.—City voted issuance of $12,000 of bonds for water-works; W. C. Young, Mayor. (Recently mentioned.)

Tex., Brady.—City voted issuance of $40,000 of bonds for construction of water-works; capacity 250,000 gallons; will install $8000 filter plant, erect $2000 pumping station and construct three dams, two to cost $7000 each; J. B. Hawley, Fort Worth, Tex., is engineer in charge. (Recently mentioned.)

Tex., Bryan.—City will expend $10,900 in extension of water-works, including construction of two reinforced concrete storage reservoirs of 50 feet diameter and 15 feet deep; Lawler Milling Co. has contract to pump water into city; A. B. Carson, City Engineer; no further contracts. (City recently noted to have purchased water-works.)

Tex., Jacksboro.—City awarded contract to W. C. Shaw Construction Co., Lawton, Okla., at $24,969 to construct water-works; contract includes power-house, standpipe, four miles of water mains, fireplugs, etc.; N. Werenskiold, engineer, Dallas, Tex.; $28,000 bond issue voted; call for bids recently mentioned. (See "Machinery Wanted.")

Va., Farmville.—Town will vote April 18 on issuance of $65,000 of bonds for purchase and improvement of water-works; $48,000 will be expended in purchase of plant and balance of bond issue for improvements and extension. Address Town Clerk. (Recently mentioned.)

Va., Blacksburg.—City contemplates laying about 3.5 miles six and four-inch cast-iron water mains; F. W. Eheart, Mayor. (Recently mentioned.)

WOODWORKING PLANTS

Ala., Ashville—Cooperage.—Ashville Cooperage Co. will erect additional drykiln, 20x65 feet. (Company was recently reported incorporated with $10,000 capital stock by M. R. Abernathy and others.)

Ala., Montgomery — Furniture.— Highland Park Lumber Co., Henry Craig, manager, S Cherry St., contemplates adding complete furniture department to millwork plant; now manufactures flooring, siding, molding, etc. (Recently reported incorporated under "Lumber-Manufacturing Plants" with $10,000 capital stock.)

Fla., Frostproof.—C. W. Brown is installing 20-horse-power sawmill and other woodworking machinery. (See "Machinery, etc., Wanted.")

Ga., Vidalia—Coffins, etc.—Vidalia Coffin & Casket Co. has purchased machinery for plant recently noted to be rebuilt. (See "Machinery Wanted.")

Ky., Henderson — Wagons. — Henderson Wagon Works incorporated with $300,000 capital stock by Paul J. Marrs, M. V. Denton, C. P. Schlamp and others; proposes to acquire Coquillard Wagon Works.

Ky., Louisville—Furniture.—Lindley Manufacturing Co. incorporated with $50,000 capital stock by E. O. Lindley, A. W. Baul, Jr., and F. T. Kincaid.

Miss., Jackson—Seating.—Capital Manufacturing Co. incorporated with $30,000 capital stock by J. M. Hatfield and A. H. Longino to manufacture seatings, desks and other furnishings and fixtures for theaters, churches, etc.

Miss., Hazlehurst—Boxes.—Hazlehurst Box Factory has organized with M. A. Atwood president and manager, H. J. Wilson vice-president, E. J. Roberts secretary; has purchased machinery to manufacture vegetable boxes, crates, etc.; buildings erected. (Recently reported incorporated with $10,000 capital stock.)

N. C., Peachland—Well Buckets, etc.—J. A. Moore and J. A. Parker will establish plant for manufacturing well buckets, casks, etc.; building is being erected.

N. C., Washington—Bed Wardrobes.—American Wardrobe Co. organized with $150,000 capital stock; has arranged with certain factories to manufacture bed wardrobes on royalty basis; H. B. Williams, president; J. F. Buckman, vice-president; C. L. Morton, secretary-treasurer.

Va., Briery.—Jos. L. Pearson & Son, R. No. 2, Keysville, Va., contemplates installing machinery for manufacturing spool and bobbin stock. (See "Lumber Manufacturing.")

Va., Boykins—Vehicles.—Hines Buggy Co., W. W. White, president, will operate factory with daily capacity of three vehicles at start; will erect 60x100-foot ordinary mill-construction building. (Recently noted organized.)

Va., Money Point (not a postoffice)—Vegetable Packages.—Marvel Manufacturing Co., Laurel, Del., will establish branch of fruit and vegetable package factory under name of Virginia Package Co. W. W. Robertson, Norfolk, Va., will be resident director.

Va., Portsmouth—Wheels, etc.—D. Sullivan will rebuild burned plant; contract awarded to E. B. Wilkins of Portsmouth at $3200 to erect three-story brick factory building; 31x65 feet; fireproof structure; plans by contractor; cost and character of machinery not yet decided.

BURNED

Ala., Bessemer.—Bessemer National Bank, R. F. Smith, president, was not destroyed by fire. (Recently incorrectly reported.)

Ala., Birmingham.—Ideal Millinery Co.'s store, corner 2d alley and 19th St.; loss $5000.

Ala., Dadeville.—Alabama King Gold Mining Co.'s mining plant damaged; loss estimated at $8000 to $10,000.

Ala., Ensley.—Bessemer (Ala.) Grocery Co.'s store; loss $14,000.

Ala., Fayette.—Peters & Young's drug store; Fayette County Bank; Fayette Telephone Co.'s exchange; Farmers' Warehouse; Propst Bros.' two stores; Turner Hotel; Fayette Banner's office; Masonic Temple; courthouse, and other structures; total loss several hundred thousand dollars.

Ala., Mobile. — Mobile Stove and Pulley Works main foundry building at its plant, Ann and Tennessee Sts.; loss $20,000 to $25,000.

Ala., Pratt City.—Ex-Mayor Scott's residence at Tuxedo.

Ala., Wylam.—Sanitarium owned by W. S. Rountree and Fred McDonald; Wylam Mercantile Co.'s store; Dave McCrorie's soft-drink stands; total loss about $10,000.

Ark., Warren.—J. N. Wheeler's building; First Presbyterian Church; loss $15,000.

Ga., Granite Hill.—Tenth District Agricultural College damaged; loss $20,000 to $22,000.

Ga., Mt. Vernon.—Union Baptist Institute's dining hall; loss $5000 to $6000.

Ga., Valdosta.—Fender Lumber Co.'s sawmill; Thomas Grate Bar Co.'s plant; estimated loss, $50,000.

Ky., Bardstown.—Grigsby & Co.'s lumber plant; estimated loss $20,000.

Ky., Benton.—William Watkins' blacksmith shop; Johnson & McKendree's grist mill; E. B. Ferguson's warehouse; loss $20,000.

Ky., Curlew.—Bell Union Coal Co.'s tipple and machine shops.

Ky., Paducah.—West Kentucky Coal Co.'s barge building plant; estimated loss $50,000.

La., Eros.—Tremont Lumber Co.'s sawmill, drykiln, boiler-house, power plant, dry sheds, lumber, etc.; loss reported as $200,000.

Md., Baltimore. — Kurrie Packing Co.'s packing plant at 29 Taylor St. damaged; also residence of Christian F. Kurrie at same location; damage to machinery estimated at $20,000, of which $10,000 is on two refrigerating plants and $10,000 on electrical equipment; total estimated loss, $50,000.

Miss., Corinth.—Building at Cruise and Fillmore Sts., occupied by Corinth News Co., Robert Hankey Grocery Co. and others; loss $10,000.

Miss., Moselle. — Moselle Mercantile Co.'s cotton gin and grist mill; estimated loss, $3500.

Mo., Columbia. — University of Missouri Mechanics Art Building; loss $50,000.

Mo., Springfield.—Young Men's Christian Association building; loss $50,000.

Mo., Webb City.—Uncle Joe Mining Co.'s plant; estimated loss, $10,000.

N. C., Asheville.—J. A. Walker's sawmill; loss about $2000.

N. C., Granite Falls.—Bowman & Starnes' building; loss $4000.

N. C., Thomasville.—Lambert Furniture Co.'s plant; estimated loss $40,000.

N. C., Wadesboro.—R. T. Bennett's residence; loss $10,000.

Okla., Coalgate.—Sparrow Hotel; loss $6000.

Tenn., Chattanooga.—McLean Lumber Co.'s plant; estimated loss, $50,000.

Tenn., Colliersville.—E. K. Leake's residence; loss $5000.,

Tenn., Hill City.—Dr. Abernathy's residence, 404 Forest Ave.; loss $5000.

Va., Clifton Forge.—Chesapeake & Ohio's repair shop; estimated loss $40,000; F. I. Cabell, chief engineer maintenance of way, Richmond, Va.

Va., Manassas.—Waters, Wright & Hickey's store; W. N. Lipscomb's office; I. C. Reid's residence and restaurant; Jenk Thomas' restaurant.

Va., Norton.—Norton Bakery, owned by M. Cousins; loss $5000.

Va., Richmond. — Richmond Iron Works paint shop; estimated loss, $15,000; plant located on Hermitage Rd.

Va., Saluda.—J. H. Pitts' lumber plant.

Va., Staunton.—R. P. Lankford's building was not destroyed by fire. (Recent report incorrect.)

Va., Stoddert.—Charles Le Sturgeon's residence; loss $6000.

BUILDING NEWS

BUILDINGS PROPOSED

APARTMENT-HOUSES

Ga., Atlanta.—J. T. Crass, 32 Ponce de Leon Ave., will expend $50,000 to erect apartment and store building; 50x100 feet; ordinary construction; brick and frame; steam heat; electric lighting; electric elevator; plans by Haralson Bleckley, 620 Empire Bldg., Atlanta. (Recently noted under "Hotels.")

Mo., St. Louis.—E. L. Wagner Construction Co. will erect two three-story apartment-houses; cost $39,000.

Mo., St. Louis.—Federal Investment Co. will erect three-story apartment-house; cost $55,000.

N. C., Durham.—B. N. Duke is not interested in erection of apartment-house. (Recent report incorrect.)

Tenn., Chattanooga.—Oscar Curry is having plans prepared by J. G. Barnwell and Clarence T. Jones, Chattanooga, for apartment-house in Park Pl.; two stories; 20 rooms; brick; composition roof; cabinet mantels; hard-pine interior finish; gas and electric lighting.

Tenn., Nashville.—M. F. Allen will erect apartment-house; two stories; brick; cost $4000.

Tex., Dallas.—Paul Erb is having plans prepared by Brickey, Bryan & Brickey, 1313 Practorian Bldg., Dallas, for apartment building; cost $10,000.

Tex., Houston.—J. N. Taub is having plans prepared for erection of apartment-house on Polk Ave. and Travis St.; three stories; 75x125 feet; pressed brick, with stone trimmings; will contain 20 flats; cost $60,000.

Tex., Houston.—Almon Cotton, 307 Beatty Bldg., is reported to erect apartment-house at Rusk Ave. and Fannin St.; six or seven stories; 50x100 feet.

W. Va.—Parkersburg.—Messrs. Selden and Till Logan have plans by R. H. Adair for store and apartment building. (See "Stores.")

ASSOCIATION AND FRATERNAL

Ala., Aliceville.—Ancient Free and Accepted Masons are reported to erect two-story brick lodge building.

Ark., Little Rock.—Young Women's Christian Association has plans by George Mann, Little Rock, for building; three stories; 50x100 feet; roof garden; upper floors surrounded by porches.

Ark., Pine Bluff.—Sahara Temple, Mystic Shrine, will erect temple; cost $30,000.

Fla., Arcadia.—Independent Order of Odd Fellows will erect brick building.

Ga., Macon.—Colored Knights of Pythias, G. R. Hulto, grand chancellor, will open bids April 8 to erect lodgerooms, stores, etc.; 68x85 feet; fireproof construction; steam heat; electric lighting; electric elevator; cost $60,000; plans by W. A. Rayfield & Co., Birmingham, Ala.

N. C., Greensboro.—Ancient Free and Accepted Masons and order of Eastern Star have plans by Hook & Rogers, Charlotte, N. C., for home; main building brick; two stories and basement; 112x90 feet; are receiving bids.

N. C., Kernersville.—Junior Order United American Mechanics will erect 40x80-foot lodge building; store on ground floor; cost $4000; architect not employed.

N. C., Raleigh.—Young Men's Christian Association, Dr. Hubert Royster, chairman of building committee, has begun 10 days' campaign for raising $65,000 to erect association building.

Tenn., Clarksville.—The building committee of the Odd Fellows' Home will receive competitive plans and descriptions for school and dormitory building at the home in Clarksville until 12 o'clock noon April 6; basement for work and recreation rooms; first floor to contain manager's office, small library-room and chapel, about 950 feet of floor area; study hall about 1200 feet floor area and two classrooms about 750 feet floor area; two separate stairways to second story, as far apart as possible, enclosed in brick walls; second story, small hospital ward, sleeping-room for manager and accommodations for at least 100 single beds; dormitory supplied with ample closet space and other accommodations; building, brick and stone; main bearing walls, first floor, brick; equipped with modern heating, electric wiring and plumbing; cost not to exceed $20,000 complete; address Dancey Fort, Clarksville, Tenn.

Tex., Marshall.—Marshall Lodge, No. 22, Ancient Free and Accepted Masons, will expend $20,000 to erect lodge building; 40x110 feet; ordinary construction; electric lighting; plans by Hubbell & Greene, Dallas, Tex.; bids received until April 3; R. P. Littlejohn, president executive board. (Recently noted.)

BANK AND OFFICE

Ark., Huntsville.—Farmers and Merchants' Bank, S. Nunnelley, president, will erect 26x60-foot bank building; fireproof construction; cost $3000.

Ark., Little Rock.—Southern Trust Co. will erect building; brick; three stories; 84x150 feet; cost $50,000.

Fla., DeLand.—Dr. Fisher will erect office building.

Fla., St. Petersburg.—Central National Bank will erect bank building; 100x50 feet; two stories; fireproof; brick; concrete, stone or reinforced concrete.

Fla., Tampa.—I. S. Giddens will erect three additional stories to Giddens Bldg.; install two elevators, steam heating system, etc.

Ga., Atlanta.—Georgia Building Co. plans to erect office building; 10 stories; reinforced concrete; faced with brick and terra-cotta; lower floor for bank; upper floors each to contain 17 offices.

Ky., Campbellville.—G. H. Gowdy will rebuild bank and office building; three stories; 90x68 feet; ordinary construction. (Recently reported burned.)

Miss., Greenville.—Mississippi Building & Investment Co., J. Weinberg, president, will open bids April 15 for erection of bank building recently mentioned; four stories; 75x110 feet; ordinary construction; steam heat; electric wiring (conduit system); electric elevator; cost $30,000; plans by William

Drago, 1002 Perrin Bldg., New Orleans, La. (See "Machinery Wanted.")

N. C., Charlotte. — Commercial National Bank is having plans prepared by Mowbray & Uffinger, 56 Liberty St., New York, for bank and office building; 12 stories; fireproof; 35x135 feet; to contain 185 offices; marble or granite; brick and terra-cotta; vacuum steam-heating plant; electric lighting; prism glass; three electric or hydraulic elevators; fire and burglar-proof vaults and about 1000 safe deposit boxes; artesian well; refrigerating and vacuum cleaning system; metal window frames; toilets on each floor; cost about $200,000; plans ready in 30 days, after which architects will receive bids. (Previously noted to erect this building.)

N. C., Hobbsville.—Farmers' Bank of Gates will erect 16x24 or 20x32-foot concrete or brick bank building; will consider proposals from builders. Address E. A. Rountree, Hobbsville. (See "Machinery Wanted.")

N. C., Roanoke Rapids.—J. P. Robinson & Bros. have plans by T. M. House, Richmond, Va., for office, store and theater building. (See "Theaters.")

N. C., Wilmington.—Atlantic Trust & Banking Co. will erect office building; probably six stories.

Tenn., Greenville.—D. P. Mason will erect building to be occupied by Citizens' Saving Bank.

Tenn., Jackson.—First National Bank is having plans prepared by R. A. Heavener, 8-9 Murray Bldg., Jackson, for bank building; two stories; stone; basement for vaults, etc.; cost $15,000.

Tenn., Memphis.—Scaife & Rice will erect office building at 5½ N. Main St.; 12 stories; 18 feet 1 inch by 70 feet; steel and white enamel brick; mezzanine floors; lower floor probably for bank; upper floors for offices, with four to six rooms on each floor; cost about $80,000.

Tex., Appleby.—First State Bank, Charles H. Tindall, president, will open bids before April 10 to erect 26x40-foot bank building. (See "Machinery Wanted.")

Tex., Dallas.—Southwestern Life Insurance Co. will let contract April 3 to erect office building; 16 stories and basement; 100x100 feet; fireproof construction; plans by Lang & Witchell, Dallas. (Recently noted to receive bids until March 25.)

Tex., Deport.—First National Bank has plans by Barry & Smith, Paris, Tex., for bank and store building; bank will be 25x60 feet; store 45x60 feet; two stories; brick; cost $6000.

Tex., Palacios.—Palacios State Bank will erect bank building; two stories; white enameled brick.

Tex., Pearland.—William E. Richey of Houston, Tex., will erect bank building; brick construction.

Va., Emporia.—Farmers' Bank will erect bank building.

Va., Emporia. — Merchants and Farmers' Bank, H. N. Hall, president, will open bids April 25 for erection of bank building; 23x60 feet; fireproof construction; hot-water heat; electric lighting; cost $8000; plans by Albert F. Huntt, Richmond, Va. (Recently noted.)

Va., Disputanta.—Bank of Disputanta will erect bank building; brick; 25x40 feet.

Va., Petersburg.—American Bank & Trust Co. will erect bank and office building; brick and stone; two stories; frontage 34 feet; cost $30,000. (Previously noted to erect bank building.)

Va., Richmond.—Life Insurance Co. of Virginia will erect proposed five-story office building.

W. Va., Falling Springs.—Bank of Renick will soon award contract to erect bank building; one story; 24x40 feet; pressed brick; fireproof vault; tile floor in lobby; hot-water heat.

W. Va., Griffithsville.—Oil Field Bank, J. C. Kiger, cashier, will receive bids until April 11 to erect two-story bank building; native stone; forfeit of $200 with bid; plans and specifications at office of W. B. Smith, architect, Huntington, W. Va.

W. Va., Morgantown.—I. C. White proposes erection of three-story stone building to be occupied by city for offices.

CHURCHES

Ala., Bay Minette.—Baptist congregation, Rev. Mr. Anderson, pastor, plans to erect $10,000 edifice.

Ala., Birmingham.—Twenty-seventh Street Baptist Church will not, at present, erect edifice recently noted.

Ark., Warren.—First Presbyterian Church will rebuild edifice reported burned; brick; cost $20,000. Address The Pastor, First Presbyterian Church.

Fla., Pensacola.—Mt. Zion Baptist Church, Rev. T. L. Jones, pastor, will rebuild edifice; 55x70 feet; gas lighting; cost $10,000; architect not selected. (Recently reported burned.)

Ga., Fitzgerald.—First Baptist Church, Rev. Thomas M. Gallaway, pastor, will expend $25,000 to erect edifice; plans not made; construction will not begin before fall. (Recently noted.)

Ky., Elkton.—Methodist congregation will erect edifice; cost about $15,000. Address The Pastor of Methodist Church.

Ky., Mechanicsburg.—East Baptist congregation will erect edifice; cost $5000. Address The Pastor, East Baptist Church.

La., Baton Rouge.—Baptist congregation will erect $35,000 edifice. Address The Pastor, Baptist Church.

Md., Hagerstown.—First Brethren Church, Rev. J. M. Tombaugh, pastor, has plans by A. A. Richter, Lebanon, Pa., for edifice; brick; cost $15,000 to $20,000.

Miss., West Point.—Episcopal congregation will erect brick edifice; cost $8500. Address The Rector of Episcopal Church.

N. C., Fairmount.—Baptist congregation is having plans prepared by H. E. Bonitz, Wilmington, N. C., for edifice; ordinary construction; hot-air heat; electric lighting; cost $15,000. (Recently noted.)

N. C., Goldsboro.—First Baptist Church has plans by J. M. McMichael, Charlotte, N. C., for edifice to seat 1200 to 1500; steam heat; electric lighting; cost $20,000; bids opened March 25. (Recently noted.)

Okla., Guthrie.—Methodist Church South plans to erect edifice. Address The Pastor of Methodist Church South.

S. C., Anderson. — St. John's Methodist Church will erect edifice; cost about $20,000. Address The Pastor, St. John's Methodist Church.

S. C., Florence. — Methodist Episcopal Church South, Rev. R. Herbert Jones, pastor, has not selected architect to prepare plans for edifice; seating capacity of auditorium 500; probably steam heat; electric lighting; cost $35,000; will open bids April 1. (Previously noted.)

S. C., Greenwood.—First Baptist Church, J. W. Sproles, chairman of committee, has plans by Wheeler & Stern, Charlotte, N. C., for Sunday-school addition previously noted; two stories; 60x80 feet; ordinary construction; heating not decided; electric lighting; cost $10,000. (See "Machinery Wanted.")

S. C., Yorkville. — Associate Reformed Presbyterian Church, Rev. J. L. Oates, chairman of building committee, will erect edifice; red pressed brick; terra-cotta trimmings; porch with four terra-cotta columns 30 inches in diameter; flight of wide granite steps leading to main auditorium; steam heat; electric lights; water and sewerage connections; cost $14,000.

Tenn., Knoxville.—African Methodist congregation will erect edifice; gothic style; main building of pressed brick; green stained shingle roof; basement for Sunday-school, furnace-room and kitchen; cost $5000; plans by W. H. Gildard, Knoxville.

Tex., Hillsboro.—First Presbyterian Church, Rev. R. P. Walker, pastor, will open bids about May 1 to erect edifice previously noted; 72x60 feet; brown pressed brick; concrete foundation; basement to be used for Sunday-school purposes; concrete columns; steam heat; electric lighting; asphalt roofing; cost $17,000; plans by Galbraith Bros., Oklahoma City, Okla. (See "Machinery Wanted.")

Tex., Edna.—Methodist Episcopal Church has plans by J. M. Hyde, Times Bldg., Shreveport, La., for edifice; face brick; stone trimmings; asbestos slate shingles; metal ceiling; art glass; electric lighting; cost $20,000.

Va., Ocean View.—Ocean View Methodist congregation, Rev. Wm. P. Wright, pastor, has plans by Lee & Diehl, Norfolk, Va., for edifice; brick; cost $3000 to $5000; seating capacity 200 or 300 people; later plans to erect edifice proper, using first structure for Sunday-school department; main structure to seat 300 to 400 people and cost $7000 to $10,000.

Va., South Boston.—Baptist congregation is having plans prepared by H. M. Miller of Roanoke, Va., for erection of Sunday-school and auditorium; cost $25,000.

CITY AND COUNTY

Ala., Huntsville—Offices and Hotel.—City will vote on $100,000 bond issue to erect hotel and office building. Address The Mayor.

Ala., Decatur—City Hall.—City issued $25,000 of bonds and will erect city hall; plans prepared. Address The Mayor.

Ark., Helena—Fire Station.—City plans to erect substation fire house; cost $5000. Address The Mayor.

Ark., Little Rock—Engine-house.—City will erect $3500 fire engine-house at 23d and Arch Sts. Address The Mayor.

D. C., Washington.—Commissioners opened bids for erection of proposed No. 24 engine-house at Rock Creek Church Rd. and Georgia Ave.; W. E. Mooney, 1425 New York Ave., is lowest bidder at $21,175. (Recently noted to receive bids until March 24.)

D. C., Washington.—Cuno H. Rudolph, John A. Johnston and E. M. Markham (acting), Commissioners, District of Columbia, will receive bids until 2 P. M. March 30 to erect shelter and storage buildings for Georgetown and Rosedale playgrounds in Washington; blank forms and information at office of chief clerk, Engineer Department, Room 427 District Bldg., Washington, or may be had on deposit of $10.

Ga., Washington—Jail.—J. W. Callaway, Commissioner of Roads and Revenues of Wilkes County, will receive bids until 12 o'clock noon March 30 for material and labor to erect county jail, including cell work, plumbing and steam-heating equipment; plans and specifications at office of G. Lloyd Preacher, architect and engineer, 403-404 Dyer Bldg., Augusta, Ga., or may be had on deposit of $10.

La., Lake Charles—Fire Station.—City has revised plans by I. C. Carter, Lake Charles, for fire station and will receive bids for erection until April 4; one and two stories; brick or cement; 50x120 feet; cost $9000 to $10,000. (Previously noted to receive bids on original plans until March 17.)

Mo., Kansas City—Fire Station.—Fire and Water Board will receive bids until April 6 to erect fire station at 60th and Troost Sts.; plans at office of Edgar C. Faris, architect, Kansas City. (Recently noted.)

N. C., Greensboro—Office Building.—County Commissioners have plans by F. A. Weston for erection of office building for County Commissioners; two stories; brick and stucco; 10-foot lobby; interior finish, hardwood with oak floors; plate-glass windows; cost $5000.

Okla., Tallequah—City Hall and Jail.—City will vote April 4 on $6000 bond issue to erect city hall and jail.

Okla., Vian—City Hall.—City will erect $6000 city hall. Address The Mayor.

S. C., Columbia—Jail.—City has engaged Shand & Lafaye of Columbia to prepare plans and specifications for jail building upon selection of site, which will be decided last week in March; W. H. Gibbes, Mayor. (Recently noted.)

S. C., St. Matthews—Jail.—Calhoun county will vote April 12 on $20,000 bond issue to erect courthouse and jail. Address County Commissioners.

Va., Clifton Forge—City Hall.—City will erect city hall; pressed brick; cost $35,000; construction begun. Address The Mayor.

Va., Newport News—Jail.—City plans to expend about $7000 to enlarge jail and erect additional story in rear and to enlarge hospital. Address The Mayor.

COURTHOUSES

Ala., Fayette.—Fayette County Commissioners plan to erect courthouse to replace structure reported burned.

Ark., Fordyce.—Dallas County Commissioners will soon award contract to erect proposed $50,000 courthouse.

Ark., Prescott.—A. M. Denham, Nevada County Judge, will receive bids submitted on special forms supplied by architects until 12 o'clock noon April 29 to erect courthouse; certified check for $1000, payable to A. M. Denham; plans at office of Theo. M. Sanders, architect, Southern Trust Bldg., Little Rock Ark., or may be had on deposit of $25. (Previously noted to have received competitive plans.)

Ga., Hinesville.—Liberty County Commissioners have plans by Chamberlain & Co., Birmingham, Ala., for courthouse to replace present structure; fireproof; cost $30,000 to $40,000.

Ga., Hinesville.—Liberty County Commissioners plan to erect courthouse.

Okla., Nowata.—Nowata county will erect $80,000 courthouse; brick construction.

S. C., St. Matthews.—Calhoun county will vote April 12 on $20,000 bond issue to erect courthouse and jail. Address County Commissioners.

W. Va., Hamlin.—Lincoln County Commissioners will erect courthouse to cost about $80,000.

W. Va., Hamlin.—Lincoln county has plans by Fall River Construction Co., Louisville, Ky., to rebuild burned structure; cost $100,000; bids for construction will be opened about April 27. (Previously noted as considering issuance of bonds.)

W. Va., Moorefield. — Board of Hardy County Commissioners invites proposals until 11 A. M. April 20 to erect courthouse according to plans and specifications prepared by Milburn, Heister & Co., Home Life Bldg., Washington, D. C.; plans and specifications on file with County Clerk and at architects' office; all bids should be addressed to C. B. Welton, County Clerk, and marked "Proposals for Courthouse"; bids to be accompanied by certified check for $1000; usual rights reserved. (Recently noted.)

DWELLINGS

Ala., Ashland.—R. G. Rowland will erect residence.

Ala., Bay Minette.—B. C. Britt will expend $3000 to erect six dwellings; six rooms each; frame; fireplaces; cement sidewalks; plans and construction by owner. (Recently noted.)

Ala., Bay Minette.—Charles Hand is reported to erect dwelling.

Ala., Bay Minette.—H. D. Ewing, president Bay Minette Land Co., is reported to erect $5000 residence.

Ala., Birmingham.—E. L. Higdon will erect two-story residence; cost $8000.

Ala., Cullman.—C. W. Sandlin will erect residence.

Ala., Gadsden.—Felix R. Allison of Montgomery, Ala., will erect two six-room, one seven-room frame and one nine-room brick dwellings; cost $15,500; will let contracts immediately.

Ala., Gadsden.—Dr. J. E. Leach will open bids April 15 to erect dwelling; two stories; eight rooms; fireproof construction; hot-water heat; gas and electric lighting; cement sidewalks; cost $5000; plans by C. B. Smith, Gadsden. (See "Machinery Wanted.")

Ala., Gadsden.—Dr. J. E. Leach will erect brick residence.

D. C., Washington.—Harry Wardman, 1312 New York Ave. N. W., has plans by A. H. Beers, 1342 New York Ave., Washington, for three dwellings at 2814-16 Connecticut Ave.; three stories; brick; cost $30,000; construction by owner.

D. C., Washington.—George Truesdell, 1627 Lincoln Ave. N. E., prepared plans and will erect number of dwellings on Columbia Rd. between 19th and 20th Sts.

D. C., Washington.—M. E. Kayhoe, 3304 Holmead Pl. N. W., has plans by A. H. Beers, 1342 New York Ave. N. W., Washington, for two two-story frame dwellings at 5104-08 14th St. N. W.; two stories and attic; nine rooms; frame and stucco; hot-water heat; gas and electric lighting; granolithic sidewalks; cost $5000.

Fla., Fort Myers.—W. C. Gwynn will erect residence; brick; probably marble trimmings.

Fla., Ocala.—R. C. Muncaster will open bids April 27 to erect dwelling; 61x82 feet; ordinary construction; cost $6000. (Recently noted.)

Fla., Tampa.—Bayshore Realty Co., J. M. Schreiber, secretary, will erect 25 two-story dwellings; frame, brick and stucco; hot air heat; concrete sidewalks; cost $75,000.

Fla., Tallahassee.—Dr. E. H. Sellards will erect residence.

Fla., Tallahassee.—Herman Gunter will erect residence.

Ga., Atlanta.—Mrs. E. L. Bishop will erect residence.

Ga., Atlanta.—L. D. Watson has plans by George E. Murphy, 332 Candler Bldg., Atlanta, for dwelling at Ansley Park; cost $4000; details not determined.

Ga., Atlanta. — J. H. Ewing, Forsythe Bldg., has plans by George E. Murphy, 332 Candler Bldg., Atlanta, for dwelling in Ansley Park; 10 rooms and two baths; hot water or steam heat; electric lighting; cost $7500 to $8500.

Ga., Dalton.—B. A. Tyler will erect bungalow; mountain stone; six rooms; hot air furnace; electric lighting; construction begun. (See "Machinery Wanted.")

Ga., Gainesville.—J. F. Chamblee will open bids April 1 to erect dwelling; two stories; 11 rooms; ordinary construction; cost $2500; plans by J. Frank Moorefield, Gainesville; address architect. (Recently noted.)

Ky., Lexington.—W. F. Clark will erect residence; two stories; eight rooms; brick; cost $3000.

Ky., Louisville.—Adam Vogt will erect eight one-story cottages; cost $8000.

Ky., Louisville.—Dr. W. S. Herndon will erect residence.

Ky., Louisville.—W. E. Meyer & Co., 426 W. Jefferson St., will erect two frame bungalows; cost $4500.

La., New Orleans.—Duncan Jones will erect residence; two stories; frame and stucco; cost $5000.

La., Shreveport.—T. L. Hammett Real Estate Co. will erect six bungalows; cost $15,000; plans by J. M. Hyde, Times Bldg., Shreveport, La.; construction begun.

La., Shreveport.—W. G. Hudson has plans by J. M. Hyde, Times Bldg., Shreveport, for dwelling; 36x68 feet; eight rooms; ordinary construction; cost $3500.

Md., Baltimore.—Crescent Realty Co., 615 Gaither Bldg., will erect 22 cottages at Forest Park.

Md., Baltimore.—O. L. Turner has plans by Henry J. Tinley, 314 N. Charles St., Baltimore, to erect dwelling at Windsor Hills; two and one-half stories; verandas on three sides; electric lighting and hot-air heating.

Md., Baltimore.—J. W. Sauter has plans by Rogers & Macfarlane of Detroit, Mich, to erect dwelling at Walbrook; two and one-half stories; hardwood floors; slate roof.

Md., Baltimore.—Oliver P. Roberts, Dalrymple and Garrison Aves., has plans by Jacob F. Gerwig, 210 E. Lexington St., Baltimore, for 15 dwellings on Ellwood Ave.; two stories; brick; 12 feet 11 inches by 45 feet; electric lights; hot-air heat; cost $18,000.

Md., Baltimore.—Abell Building Co., organized by J. Goldstein and others, Equitable Bld., is having plans prepared by Henry J. Tinley, 314 N. Charles St., Baltimore, for 10 dwellings on Abell Ave., between 31st and 32d Sts.; two stories; brick; 15x55 feet; pressed brick fronts; cost $18,000.

Md., Baltimore.—Downing & Murphy will expend $250 each to erect 40 dwellings on York Rd. near Franklin Ter.; each 15x50 feet; two stories; steam heat; gas and electric lighting; plans by J. S. Downing, 602 41st St., Baltimore; construction by owners. (Recently noted.)

Md., Baltimore.—Joseph Berman has plans by Otto G. Simonson, American Bldg., Baltimore, for residence; 30x60 feet; frame; slate roof; hot-water heat; electric lighting; granolithic sidewalks.

Md., Baltimore.—Edward Hanes, Hickory Ave., Hampden, has plans by John R. Forsythe, 232 St. Paul St., Baltimore, for dwelling; 15x45 feet; ordinary construction; hot-water heat; cost $4000.

Md., Baltimore.—Clarence A. Tucker, 708-10 Fidelity Bldg., purchased site at Sudbrook Park and will erect residence.

Md., Baltimore.—David Wright, Pratt St. and Highland Ave., will expend $1100 each to erect 118 two-story brick dwellings; 14x42 feet; six rooms each; plans and construction by owner. (Recently noted.)

Md., Baltimore.—Provident Realty Corporation, Garrison and Piedmont Aves., has plans by Henry J. Tinley, 314 N. Charles St., Baltimore, for bungalow on Elsinor Ave. between Bateman and Carlisle Aves.; one story; frame; 28x40 feet; cost $4000.

Md., Mt. Washington.—S. S. Bouis, 64 Knickerbocker Bldg., Baltimore, Md., has plans by Owens & Sisco, 1605 Continental Bldg., Baltimore, Md., for improvements to residence; two and a half stories; frame; cost about $10,000; contractors estimating are Gladfelter & Chambers, 2072 Woodberry Ave.; Brown & Morgan, 15 E. Fayette St., both of Baltimore, Md.; Phillip Watts, Pikesville, Md., and Israel Owings, Mt. Washington.

Md., Roland Park.—Wm. H. Wells, chief engineer of Southern Railway, 1300 Pennsylvania Ave. N. W., Washington, will erect residence on Roland Ave. north of Cold Spring La.; ornamental frame, brick and shingle; cost $10,000.

Miss., Meridian.—John Kamper has plans by P. J. Krouse, Meridian, for two-story dwelling; brick veneer; hot-water heat; lighting to cost $250; cost of residence $7000; no contract. (Recently noted.)

Mo., Kansas City.—Joseph W. Reid, Ottawa, Kans., will erect residence.

N. C., Charlotte.—Mrs. O. A. Robins contemplates erection of seven apartment-houses; two stories each; one to have two flats of five rooms and bath; other six to have six and seven rooms and bath; pebble-dash; tin roof; heating not decided; electric lighting; cost $18,000; plans by owner.

N. C., Greensboro.—H. T. Ham will erect dwelling; two stories; frame; eight rooms; cost $3000.

N. C., Mebane.—Arthur White will erect dwelling; seven rooms; ordinary construction; cost $2500; architects are invited to submit plans. (See "Machinery Wanted.")

N. C., Mebane.—R. H. Tyson will erect dwelling; six rooms; ordinary construction; W. Patton, probable contractor.

N. C., Mebane.—W. Y. Malone is reported to erect residence.

N. C., Wadesboro.—L. D. Robinson will open bids in about 30 days to erect dwelling; two stories; 80x90 feet; frame; hot-water heat; electric lighting; cost $10,000; plans by Wheeler & Stern, Charlotte, N. C. (See "Machinery Wanted.")

N. C., Wilmington.—H. E. Bonitz will erect 14 additional rooms to boarding-house at Wrightsville Beach, making total of 22 rooms.

N. C., Winston-Salem.—Dr. T. A. Apple is having plans prepared by W. C. Northrup, Box 234, Winston-Salem, for dwelling; pebble dash and shingle; hot-water heat.

N. C., Winston-Salem.—H. G. Chatham is having plans prepared by W. C. Northrup, Box 234, Winston-Salem, for remodeling residence; hot-air heat.

S. C., Columbia.—John Reynolds will erect residence and stable; cost $3000.

S. C., Columbia.—George Browning will erect residence; cost $5850.

S. C., Columbia.—J. Thos. Arnold will erect residence; cost $3000.

Tenn., Chattanooga.—Ferger Bros. are having plans prepared by J. G. Barnwell and Clarence T. Jones, Chattanooga, for one brick, one stucco over frame and two earthenware tile covered with stucco residences; the latter of fireproof construction; seven to nine rooms; cost $6000 to $8000.

Tenn., Chattanooga.—J. F. Ferger is having plans prepared by J. G. Barnwell and Clarence T. Jones, Chattanooga, for four dwellings; seven to nine rooms; brick, frame and stucco; tile roof; tile and hardwood floors; steam and hot-air heat; gas and electric lighting; eight-inch tile walls; cost $8000 to $10,000 each.

Tenn., Knoxville.—Miss Kate Ogden will erect residence; cost $3000.

Tenn., Memphis.—John J. Collins will erect residence; two stories; stone veneer; tiled roof; reinforced concrete foundation; cost about $8000.

Tex., Dallas.—W. Speers is having plans prepared by Brickey, Bryan & Brickey, 1313 Praetorian Bldg., Dallas, for dwelling; cost $4000.

Tex., Dallas.—Henry Hughes is having plans prepared by Brickey, Bryan & Brickey, 1313 Praetorian Bldg., Dallas, for dwelling; cost $3500.

Tex., Dallas.—H. J. Reynolds is having plans prepared by Brickey, Bryan Brickey, 1313 Praetorian Bldg., Dallas, for dwelling; cost $7000.

Tex., Dallas.—R. Nesbit is having plans prepared by Brickey, Bryan & Brickey, 1313 Praetorian Bldg., Dallas, for dwelling; cost $3500.

Tex., Dallas.—Paul Erb is having plans prepared by Brickey, Bryan & Brickey, 1313 Praetorian Bldg., Dallas, for dwelling; cost $4500.

Tex., El Paso.—C. M. Youngberg will erect residence; stone and brick; cost $3700; construction by owner.

Tex., Fort Worth.—R. R. Darrah, care of Waters-Pierce Oil Co., will erect $5000 residence.

Tex., Houston.—J. T. Figg will erect residence; eight rooms; cost $3500.

Tex., Houston.—J. A. Jenkins of Hubble, Slack & Co. will erect residence.

Tex., Houston.—Eugene Bottler of Bottler Bros. will erect semi-fireproof residence; two stories; concrete; cost $7500.

Tex., Houston.—C. C. Hinds will erect residence; two stories.

Tex., Houston.—C. G. Mayer of Wasey, La., will erect residence.

Tex., Houston.—Mrs. Guthrie is having plans prepared by C. D. Hill & Co., 1215 Carter Bldg., Houston, for two dwellings; cost $12,000.

Tex., Houston.—B. Zindler is having plans prepared by C. D. Hill & Co., 1215 Carter Bldg., Houston, for two dwellings; cost $10,000.

Tex., Houston.—F. Dixon is having plans prepared by C. D. Hil & Co., 1215 Carter Bldg. Houston, for dwelling to cost $5000.

Tex., Marlin.—Paul Cluck is receiving bids for erection of two-story residence.

Tex., Marlin.—J. M. Kennedy will erect residence.

Tex., Palacios.—W. W. Bussel will erect seven-room residence.

Tex., Van Alstyne.—Creed Taylor will expend $10,000 to erect dwelling; two stories and basement; 50x70 feet; ordinary construction; brick; concrete; stone; tile roof; hardwood trimmings and floors; hot-water heat; electric lighting; plans by John Tulloch, Sherman, Tex.; bids opened March 30. (Recently noted.)

Tex., Victoria.—F. B. Lander, cashier of Farmers & Merchants' Bank, will erect $8000 residence.

Va., Big Stone Gap.—George H. Gray, architect, 708 Louisville Trust Bldg., Louisville, Ky., will soon receive bids to erect frame dwelling for Mrs. Fritzi Scheff Fox; complete work calls for roads, planting and dependencies.

Va., Fredericksburg.—Charles E. Talley will erect residence.

Va., Luray.—Daniel I. Stover will erect dwelling.

Va., Richmond.—Geo. Schoen will erect three-story brick residence; cost $16,000.

Va., Roanoke.—J. K. Richardson will erect dwelling; two stories; brick; cost $4000.

W. Va., Elm Grove.—Lester Henderson will erect residence.

W. Va., Charles Town.—J. D. Heidwold will erect dwelling.

GOVERNMENT AND STATE

Miss., Brookhaven—Postoffice.—Treasury Department, James Knox Taylor, supervising architect, Washington, D. C., opened bids for erection of postoffice building; Stuart & Randall, Oklahoma City, Okla., are lowest bidders at $50,575. (Previously noted to receive bids until March 8.)

Okla., Fort Sill—Powder Magazine.—Office Constructing Quartermaster. Sealed proposals in triplicate will be received at this office until 10 A. M. April 15 for constructing powder magazine at Fort Sill; specifications, blueprints and further information furnished on application to the undersigned; certified check for $5 will be required to insure return of plans, etc.; United States reserves right to accept any or reject all proposals; proposals should be endorsed, "Proposals for Powder Magazine," and addressed to Capt. David L. Stone, U. S. A., Constructing Quartermaster.

Tenn., Davidson County—Reformatory.—Legislature appropriated $50,000 to erect buildings and purchase equipment for Tennessee Reformatory for Boys; Ben W. Hooper, Governor, Nashville, Tenn.

Tex., Galveston—Quarantine Station.—Treasury Department, Office of Supervising Architect, James Knox Taylor, Washington, D. C. Sealed proposals will be received at this office until 3 P. M. May 6, and then opened, for construction of quarantine station at Galveston, according to plans and specifications, copies of which may be had, at discretion of Supervising Architect, at office of medical officer in command, Galveston, or at this office.

Va., Wachapreague—Life-saving Station.—Treasury Department, U. S. Life Saving Service, Washington, D. C. Sealed proposals will be received at this office until 2 P. M. April 4 for construction of life-saving station at Wachapreague; specifications and drawings, forms of proposal, etc., can be obtained upon application to superintendent of sixth life-saving district, Lewes, Del.; superintendents of construction of life-saving stations, 379 Washington St., New York, N. Y., or to this office; S. L. Kimball, general superintendent.

HOTELS

Ala., Birmingham.—S. B. Ethridge, 3827 Avenue D, will open bids June 1 for repairs to damaged hotel recently reported burned; 35x74 feet; four stories; 30 rooms; 12-foot porch; one story to be of monolithic concrete; hot-water or steam heat; gas lighting; hydraulic or electric elevator; cost $7500. (See "Machinery Wanted.")

Ala., Huntsville.—City will vote on $100,000 bond issue to erect building for hotel and city offices. Address The Mayor.

Fla., Floridatown (not a postoffice).—Floridatown Land Co., A. P. Hardee, president, is proceeding with construction of 26-room hotel to cost $10,000; plans by W. C. Frederick of Pensacola, Fla. (Recently noted.)

Ga., Adairsville.—W. D. Stewart contemplates erection of $10,000 hotel.

Ga., Rome.—Cherokee Insurance Co. purchased four-story brick building on Second Ave., and will convert into 72-room hotel; plans prepared.

Ga., Savannah.—Greater Savannah Company will incorporate to acquire (from Forest City Hotel Co.) New Screven House and erect Hotel Savannah at Bull & Congress Sts.; 10 stories; 120x90 feet; fireproof construction; cost $350,000; Mills B. Lane, chairman of committee, telegraphs the Manufacturers Record architect has not been selected. (Forest City Hotel Co. recently reported having plans prepared for hotel.)

La., Shreveport.—Peter Youree will build hotel at Market and Texas Sts., on present site of Phoenix Hotel; eight stories; 225 rooms and basement; cost $300,000.

Mo., Kansas City.—Juvenile Improvement Club, E. E. Porterfield, Judge of Juvenile Court, will have plans ready in a few weeks for superstructure of 130x86-foot hotel; fireproof construction; steam heat; cost $40,000; plans by Root & Siemens, Scarritt Bldg., Kansas City; contract for foundation work awarded to George H. Siedoff, Finance Bldg., Kansas City. (Recently noted.)

N. C., Southern Pines.—E. Millen is reported to erect hotel to replace Piney Woods Inn, recently burned; fireproof; brick or cement blocks; three stories; about 100 sleeping-rooms; cost, including furnishings, about $60,000. (Recently incompletely reported.)

Tex., Dallas.—Dallas Hotel Co. incorporated with $600,000 capital stock by Adolphus Busch, Edward A. Faust, W. H. Clancy and others to erect proposed 22-story hotel; Louis XIV style; casement windows; ornamental iron guard balconies; red velvet brick; plans by Barnett, Haynes & Barnett, Frisco Bldg., St. Louis, Mo. (Previously mentioned.)

Tex., El Campo.—Theodore Buhler, J. F. Welder and C. S. E. Holland, all of Victoria, Tex., have plans by Hull & Praeger, Victoria, Tex., for $14,000 annex to Rice Hotel.

Tex., Waco.—Dr. H. W. Smith will erect store and hotel building. (See "Stores.")

W. Va., Matewan.—R. W. Buskirk is having plans prepared by Pedigo & Garry, Bluefield, W. Va., for store and hotel building; three stories; pressed brick; eight stores on first floor; hotel above; plate-glass display windows with prism-glass tops; steam heat; electric and gas lights; 100x200 feet; cost $65,000. (Mr. Buskirk recently noted to erect hotel; day labor.) (See "Machinery Wanted.")

MISCELLANEOUS

Ala., Oneonta—Livery Stable.—Commodore Huffstutler will erect livery stable corner 3d St. and Second Ave.; 50x133 feet; concrete block.

Fla., Ocala—Clubhouse.—Clarence Camp will not erect clubhouse. (Recently incorrectly noted at Ocala, Ala.)

Ky., Louisville—Restaurant.—J. H. Caperton will expend $12,000 to remodel building at 554-556 S. Fourth Ave. for restaurant for Jennie C. Benedict & Co.; plans call for servants' dressing-room in basement, store and dining-rom on first floor; two-story addition in rear for kitchen and manufacturing candy.

La., Lafayette—Sanitarium.—Lafayette Sanitarium Co. has plans to erect sanitarium on St. John St.; brick; cost $10,000.

La., New Orleans.—Progressive Union leased three upper floors of Veranda Hotel, and is having plans prepared by Diboll, Owens & Goldstein, New Orleans, to remodel for clubrooms; three entrances and broad stairway; main section of third floor for auditorium or convention hall, with mezzanine gallery around three sides.

Md., Baltimore.—E. J. Gallagher, 625 Rose St., is reported to erect building at Eastern Ave. and Wolfe St.; first floor for sub-postoffice; upper floor for hall; cost $40,000.

Md., Hagerstown—Clubhouse.—Hagerstown Country Club incorporated by A. C. Strite, George E. Roulette and others; will erect clubhouse.

Okla., Klamichi.—Dr. B. A. Hall, Oklahoma City, Okla., will erect sanitarium to cost $20,000. (Recently noted at Albion, Okla.)

Okla., Sulphur—Sanitarium.—Sulphur Sanitarium Co. incorporated with $10,000 capital stock by W. C. Rea, C. C. Cooper, both of Roff, Okla., and J. L. Jeffress of Sulphur.

Okla., Tulsa—Natatorium.—E. F. Fannan and F. D. Winn will erect natatorium on 2d St., between Elgin and Frankfort Sts.; 50x90 feet; two stories.

S. C., Union—Hospital.—Union Hospital, M. W. Culp, president, has plans by J. B. Urquhart, Columbia, S. C., for proposed hospital building; brick veneer; two wards and nine private rooms; accommodations for 18 patients.

Tex., Dallas—Home.—Methodist Churches awarded contract to Buchanan & Gilder, Dallas, for proposed mission home and training school; two stories and basement; 200x200 feet; fireproof; cost $50,000; plans by C. W. Bulger, Dallas.

Tex., Fort Worth.—River Crest Golf Club, Morris Berney, president, will erect clubhouse.

Va., Petersburg—Fair Buildings.—Fair Association is having plans prepared by M. P. Andrews & Co., Petersburg, for grandstand 48x250 feet; auditorium 100x150 feet; has plans by same architects for ladies' rest building; sheep and swine building 24x100 feet; agricultural building 48x150 feet; poultry building 24x100 feet; cattle building 32x100 feet.

RAILWAY STATIONS

Md., Frederick.—Northern Central Railway, J. H. Nichols, engineer, Williamsport, Pa., will expend $30,000 for freight depot and terminal improvements.

Md., Frederick.—Baltimore & Ohio Railroad, F. L. Stuart, chief engineer, Baltimore, Md., will erect $60,000 freight depot to replace present structure. (Previously reported to erect freight depot.)

Okla., Idabel.—St. Louis & San Francisco Railroad Co., F. G. Jonah, chief engineer, St. Louis, Mo., will erect railway station to cost $3500; construction by company's force.

Tenn., Memphis.—Illinois Central Railroad Co., A. S. Baldwin, chief engineer, Chicago, Ill., will expend $400,000 to erect depot; 156x286 feet; fireproof construction; vacuum steam heat; Holophane system of electric lighting; date of opening bids not set. (Recently noted.)

Tex., Blim.—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., will erect depot; cost $5300.

Tex., Fort Worth.—Texas & Pacific Railway Co., B. S. Wathen, chief engineer, Dallas, Tex., will enlarge and improve passenger terminals; will construct two or more additional passenger train tracks with sheds; erect south wing to passenger station to extend across main tracks; 100-foot addition to baggage, mail and express company's quarters; extension to present sheds, etc.

Tex., Laredo.—International & Great Northern Railroad, O. H. Crittenden, consulting engineer, Palestine, Tex., plans to erect brick depot.

Tex., Lometa.—Gulf, Colorado & Santa Fe Railway, F. Merritt, chief engineer, Galveston, Tex., will erect depot; cost $6200.

Tex., Terrell.—Texas & Pacific Railway, B. S. Wathen, chief engineer, Dallas, Tex., will erect freight depot; concrete foundation.

Va., Lynchburg.—Southern Railway, W. H. Wells, chief engineer of construction, Washington, D. C., will erect passenger station; plans not definitely decided; date of asking bids not set.

Va., Norfolk.—Norfolk Terminal Railway Co., L. E. Johnson, president, Roanoke, Va., ordered architects Reed & Stem, 7 E. 42d St., New York, to have bids from contractors by April 15 for erection of union passenger station; 400-foot frontage; brick and steel; granite base; terra-cotta trimmings; fireproof; eight stories and mezzanine; two elevators; steam and forced hot-air heat; cost about $500,000. (Other details previously noted.)

Va., Old Point Comfort, P. O. Fortress Monroe.—Newport News & Old Point Railway & Electric Co. awarded contract to C. T. Holtzclaw, Newport News, Va., to erect freight depot; 28x40 feet; covered freight shed platform 25x40 feet.

SCHOOLS

Ala., Birmingham.—Miles Memorial College, Dr. J. A. Bray, president, will open bids April 20 for erection of Stewart Hall dormitory; 100x30 feet; mill construction; steam heat; electric lighting; cost $27,000; plans by W. A. Rayfield & Co., Birmingham.

Ala., Flomaton.—City voted $6000 bond issue to erect school building. Address The Mayor. (Recently noted.)

Ark., Huntington.—City will erect school; cost about $20,000. Address The Mayor.

D. C., Washington.—District Commissioners, District Bldg., will open bids about May 1 for erection of teachers' training school; 100x300 feet; fireproof construction; plenum system of heating; gas and electric lighting; prismatic sidewalks; cost $230,000; plans by Snowden Ashford, municipal architect. (See "Machinery Wanted.")

Ga., Barnesville.—City will vote April 18 on $35,000 bond issue for additional buildings at Gordon Institute. Address The Mayor.

Ky., Elizabethtown.—City and Hardin County Commissioners will jointly erect high-school building; cost $40,000; will soon vote on bond issue for this improvement.

Ky., Louisa.—Lawrence County Board of Education will receive bids until 4 P. M. April 7 for material and erection of six schools as follows: Borders Chapel Educational Division No. 2, Sub-division No. 12; Cherokee Educational Division No. 4, Sub-division No. 1; Daniels Creek Educational Division No. 6, Sub-division No. 2; Hicksville Educational Division No. 6, Sub-division No. 8; Morgans Creek Educational Division No. 8, Sub-division No. 6; Rockford Educational Division No. 8, Sub-division No. 11; contractors may bid on one or all schools; Jay O'Daniel, superintendent of schools.

La., Lake Charles.—School Board will erect four ward schools.

La., Tallulah.—Madison Parish School Board will receive plans and specifications until April 4 (extended date) for high-school building; brick; 10 classrooms and auditorium with seating capacity for 300; steam heat; cost not to exceed $20,000; usual rights reserved; for further information, address C. M. Hughes, superintendent of public education of Madison parish. (Recently noted.)

La., Ville Platte.—City is considering erection of $40,000 school. Address The Mayor.

La., Forest Hill.—Public High School building committee has plans by Stevens & Nelson, New Orleans, La., for 15-room school.

La., Ruston.—Lincoln parish has plans by G. W. Ashby, Chicago, for proposed Lincoln parish school; three stories; modified E-form; two-story auditorium forming middle bar of letter; first or basement floor for manual training and domestic-science department, heating plant, etc.; dressed-stone basement; upper stories brick, with stone trimmings.

La., New Orleans.—Tulane University will receive bids through architects, Debuys, Churchill & Labouisse, Hibernia Bldg., New Orleans, in about 30 days for erection of S. O. Thomas Memorial Building; to be used for electric, mechanical and civil engineering; 63x135 feet; three stories; pressed brick; stone trimmings; cost $60,000. (Previously noted.)

Md., Baltimore.—Board of Awards, J. Barry Mahool, president, opened bids for erection of No. 70 school at William St. and Warren Ave.; E. J. Phipps, 227 Corcoran Bldg., Washington, D. C., is lowest bidder on general contract at $106,000; size of building 80x160 feet; semi-fireproof corridors; heating and lighting to cost $2800; plans by Glidden & Friz, Glenn Bldg., Baltimore. (Recently noted to open bids March 22.)

Md., Frederick.—School Board has plans by Parker, Thomas & Rice, 1109-1111 Union Trust Bldg., Baltimore, Md., for high school building; two stories and basement; mansard roof with cupola; brick; 12 classrooms each 22 feet 6 inches by 35 feet; to accommodate 40 pupils; basement to contain repair shop; two manual-training rooms, separated by glazed doors; cold-storage department; boiler-room, etc.; two commercial rooms, 22 feet 6 inches by 26 feet; library 22 feet 6 inches by 35 feet; teachers' room 12x12 feet; cost about $55,000. (Recently noted to invite architects to submit plans.)

Md., Lutherville.—Maryland College for Women is receiving bids for college building to replace burned structure; contractors estimating are: Edward Brady & Son, 1109 Cathedral St.; Monmonier & Sorrell, 1711 McCulloh St.; Armored Concrete Co., 1210 Block St.; John Cowan, 106 W. Madison St.; J. J. Walsh & Sons, 1533 Maryland Ave.; J. F. Morgan, 1300 S. Charles St.; D. M. Andrews, Eastern Ave. and 12th st., and Jacob Fowble, all of Baltimore, Md.; bids will be opened April 6. (Lately mentioned as having plans prepared by James S. Nussear, Professional Bldg., Baltimore.)

Miss., Magee.—Board of Trustees of Agricultural High School of Simpson County has plans for erection of two dormitories; contract will be awarded April 20.

Mo., Sarcoxie.—Sarcoxie District Board of Education will let contract April 7 to erect high-school building; 80x66 feet; ordinary construction; direct steam heat; cost $15,000; plans by Garstang & Rea, Joplin, Mo. Address architects. (Recently noted.)

N. C., Chadbourn.—Chadbourn School Trustees are having plans prepared by H. E. Bonitz, Wilmington, N. C., for school building; 12 rooms and auditorium; ordinary construction; warm-air heat. (Recently noted.)

N. C., Fayetteville.—Cross Creek township voted $50,000 bond issue to erect school; D. N. McLean, registrar.

N. C., Parkton.—Parkton School District Trustees plan bond issue to erect school.

N. C., West Raleigh.—Agricultural and Mechanical College will erect building to be used by department of animal industry; brick, stone and concrete; cost $30,000.

Okla., Britton.—Oklahoma City College for Young Ladies, N. L. Linebaugh, president, is reported to expend $1,000,000 for erection of proposed buildings, including $100,000 administration building, library, conservatory, science hall, domestic science building, laboratories, fine arts building, natural history and museum building, gymnasium, recitation halls, infirmary, power-house, laundry, observatory, president's residence to cost $15,000, two $25,000 dormitories, Y. M. C. A. building, residences for professors and sororities.

Okla., Kenefick.—City will probably issue bonds to erect $20,000 high-school building. Address The Mayor.

Okla., Ponca.—Board of Education will receive bids until 8 P. M. April 3 for completion of two-story-and-basement stone school on Block 44, Hartman Addition; certified check payable to John G. Given, clerk, in whose office plans, specifications, etc., are on file. (Recently noted as having voted $35,000 bond issue and to receive bids.)

S. C., Greenwood.—Lander College, G. W. Sullivan, president board of trustees, has not selected architect to prepare plans for three-story dormitory; to accommodate 80 pupils; steam heat; electric lighting; cost $25,000 to $30,000. (Recently noted.)

S. C., Greenville.—City plans to vote on $40,000 bond issue to erect school; P. T. Hayne, James F. Mackey and Jesse R. Smith, trustees.

S. C., Spartanburg.—City will open bids about May 15 to erect school building; two stories and basement; semi-fireproof construction; vacuum steam heat; electric lighting; cost $25,000; plans by F. S. & J. G. Cunningham, Greenville, S. C. (Recently noted to have voted $50,000 bond issue.)

Tenn., R. F. D. from Blountsville.—Board of Trustees, D. M. Minga, secretary, will erect concrete high-school building; 50x50 feet; heating and lighting not decided; cost $6000.

Tex., Asherton.—City voted $15,000 bonds to erect school building. Address The Mayor.

Tex., Dallas.—City will vote April 4 on $250,000 bond issue for school improvements; C. B. Gillespie, Commissioner of Finance and Revenue. (Recently noted.)

Tex., Dallas.—City is having plans prepared by W. F. Nichol, Dallas, for proposed six-room addition to Dallas Central High School; cost $10,000 to $15,000.

Tex., Dolbin.—Dolbin Independent School District will vote on $10,000 bond issue to erect brick school. Address District School Trustees.

Tex., Eastland.—City is having plans prepared by Brickey, Bryan & Brickey, 1313 Praetorian Bldg., Dallas, Tex.; cost $18,000.

Tex., Kerens.—City is having plans prepared by Brickey, Bryan & Brickey, 1313 Praetorian Bldg., Dallas, Tex., for high-school building; cost $18,000.

Tex., Houston.—School Board petitioned Mayor and City Council for election to vote on $750,000 bond issue for school improvements, as follows: New building at Rusk school; new building or additional rooms at Hawthorne; new South End school; additional ground and rooms at Lubbock; new and larger buildings to replace frame structures at Taylor, Dow and Longfellow; more ground at Jones and Reagan; additional rooms at Sherman; further provision for high-school purposes; additional rooms at several colored schools.

Tex., Richmond.—Richmond Independent School Trustees have plans by Jones & Tabor, Houston, Tex., for annex to Richmond high-school building; 50x60 feet; ordinary construction; steam heat; electric lighting; cost $10,000. Address architects, 505 Pinz Bldg.

Tex., Rock Island.—Rock Island School Board is having plans prepared by J. Henry Yentzen, Yoakum, Tex., for $10,000 school building.

Tex., Silverton.—City has plans by T. J. Garbraith, Chickasha, Okla., for proposed $30,000 school.

Tex., Westhoff.—City will vote May 6 on $5000 bond issue to erect brick school; Rudolph Kleberg, Judge.

Va., Graham.—City will vote April 18 on $30,000 bond issue to erect school building. Address The Mayor.

Va., Norfolk.—School Board, Richard A. Doble, division superintendent, 807 Paul-Gale-Greenwood Bldg., will receive bids until April 8 to erect fireproof 14-room grammar-school building in Queen street; drawings, etc., on file at office of B. F. Mitchell, Seaboard Bank Bldg., Norfolk; usual rights reserved.

Va., Norfolk.—School Board, Richard A. Doble, division superintendent, will receive bids until April 8 at 807 Paul-Gale-Greenwood Bldg. to erect 12 or 16 classroom grammar school in Berkley Ward; drawings and specifications on file at office of Lee & Diehl, Seaboard Bank Bldg., Norfolk; usual rights reserved.

Va., Port Republic.—Christian Industrial School, Rev. G. D. Moses, president, will erect proposed school.

Va., Suffolk.—School Board, T. W. Artman, clerk, will receive bids until April 25 to erect school; plans and specifications at office of Charles M. Robinson, architect, Richmond, Va.

Va., Victoria.—City voted $9000 bond issue to erect high-school building. Address The Mayor.

STORES

Ala., Bay Minette.—W. R. White will erect brick store building; 40x60 feet; two stories.

Ala., Bay Minette.—O. C. Hall contemplates erection of store building; 40x80 feet; two stories.

Ala., Birmingham.—S. B. Marks will erect business building; two stories; brick; cost $8000.

Ala., Birmingham.—Ideal Millinery Co., R. Z. Aland, proprietor, will rebuild burned store.

Ala., Cullman.—G. S. Leeth will erect store and office building; two stores on lower floor; offices above.

Ala., Dadeville.—W. D. O'Brien and B. L. Young have incorporated company with $10,000 capital stock to erect brick store.

Ala., Fayette.—Probst Brothers will erect store building to replace structure reported burned.

Ala., Gadsden.—Felix R. Allison, Montgomery, will erect two-story 25x115 foot brick store building; will let contract at once.

Ala., Montgomery.—Lee Street Terminal Co., W. J. Hannah, president, is reported to erect several store buildings, one 150x50 feet.

Ark., Warren.—J. N. Wheeler will probably rebuild structure reported burned.

Fla., Brooksville.—Earl Johnson is reported to erect brick business building.

Fla., Inverness.—G. H. Turner will erect brick store building.

Fla., Deland.—George W. Fisher has plans by Cairnes & Fitchner, Dreker Bldg., Deland, for two stores on New York Ave.; two stories; brick; 25x65 and 22x65 feet; cost $7000.

Ga., Atlanta.—J. W. Roberts will erect store on Madison Ave.; five stories; concrete; building has been leased by Marett Grocery Co., 32 Madison Ave.

Ga., Atlanta.—T. J. Avery of Avery & Co., 53 S. Forsyth St., will erect building on west side of Forsyth St.; for use of Lamar & Rankin Drug Co.

Ga., Atlanta.—J. T. Crass, 32 Ponce de Leon Ave., has plans by Haralson Bleckley, 620 Empire Bldg., Atlanta, for store and apartment building; cost $50,000. (See "Apartments.")

Ga., Atlanta.—C. W. McClure will erect several brick stores.

Ga., Kingston.—W. H. Griffin will not at present rebuild structure recently reported burned.

Ga., Macon.—Colored Knights of Pythias, G. R. Hutto, Grand Chancellor, will open bids April 8 to erect store and lodge building. (See "Association and Fraternal Buildings.")

Ky., Louisville.—E. L. McGrath estate, 207 W. Broadway, will erect two-story frame and veneer store.

Ky., Louisville.—J. H. Caperton will expend $14,000 to remodel building at 554-56 S. 4th St., to be occupied by Jennie C. Benedict & Co.

Miss., Meridian.—H. Thornton will not at present remodel stable into store and office building, as recently stated.

Mo., Kansas City.—Muehlebach Brewing Co. will erect store building; two stories; brick; 49½x115 feet.

Mo., St. Louis.—M. E. Croak & Co. will probably erect four-story business building.

N. C., Charlotte.—Southern Real Estate Loan Co. will erect store building.

N. C., Parkton.—Parkton Mercantile Co. will erect store building.

N. C., Roanoke Rapids.—J. P. Robinson & Bros. have plans by T. M. House, Richmond, Va., for store, theater and office building. (See "Theaters.")

N. C., Winston-Salem.—T. C. May and A. F. May, Spring Hope, N. C., will erect store building; two stories; brick; 50x110 feet.

N. C., Winston-Salem.—Mrs. J. H. Fariss will erect two-story brick business building.

Okla., Oklahoma City.—Ross E. Thomas, 602 Campbell Bldg., has plans by J. H. Randall, Oklahoma City, for store building; 25x125 feet; fire walls; cost $7500. (Recently noted.)

S. C., Columbia.—Southern Leasehold & Trust Co. is reported to erect 12 business buildings.

S. C., Manning.—Leon Weinberg has plans by E. J. & W. K. Dunne, Sumter, S. C., for store and office building; 54x125 feet; ordinary construction. Address proposals to architects.

Tenn., Memphis.—Huling Realty Co. will erect six stores; three stories and basement; sprinkler system; heavy-duty elevators; cost not less than $150,000.

Tex., Deport.—First National Bank will erect store and bank building to cost $6000. (See "Bank and Office Buildings.")

Tex., Houston.—Glover & Son are preparing plans for six-story business building; fireproof; steel frame; concrete construction; exterior faced with pressed brick; basement under entire building; cost about $300,000.

Tex., Quanah.—Perkins-Watkins Dry Goods Co., Quanah and Wichita Falls, Tex., will soon award contract to erect 50x100-foot store building; brick and wood; electric lighting; cost $15,000; plans by Glenn Bros., Wichita Falls, Tex.

Tex., Madisonville.—Parten Bros. & Byers will erect brick building; 40x100 feet.

Tex., Madisonville.—W. M. Evans and W. D. Evans will erect two brick buildings adjoining, and will probably use upper floors for opera-house.

Tex., Madisonville.—R. P. Turner will erect frame store building.

Tex., New Braunfels.—Pfeuffer-Holm Company will erect two-story 40-foot addition to store building.

Tex., San Benito.—Fred Suite will erect store; brick; two stories; 25x90 feet; pressed-brick and plate-glass fronts.

Tex., San Benito.—C. W. Dunaway will erect store; two stories; 25x90 feet; brick; pressed-brick and plate-glass fronts.

Tex., Shiner.—Shiner Hardware Co. is having plans prepared by J. Henry Yentzen, Yoakum, Tex., for 50x80-foot store building.

Tex., Shiner.—Wolters Bros. have plans by J. Henry Yentzen, Yoakum, Tex., for business building; two stories; 48x110 feet; brick. (Recently noted to receive bids until March 24.)

Tex., Waco.—Dr. H. W. Smith will erect three-story pressed-brick building on S. 8th St., between Mary and Jackson Sts.; 65x145 feet; lower floor for business purposes; two upper floors to have about 50 rooms for hotel; will also erect one-story-and-basement building on Jackson St.

Va., Newport News.—Mrs. L. P. Stearns will open bids April 11 at office of Allen Jones, Newport News, for erection of business building; plans by Lee & Diehl, Norfolk, Va.

Va., Norfolk.—Phil Harris, executor of estate of Ash Harris, will erect four-story brick store building; cost $25,000.

Va., Norfolk.—Ames, Brownley & Hornthal have plans by Ferguson & Calrow, Norfolk, for three-story mercantile building; 35x113 feet; ordinary construction; steam heat; electric lighting; passenger elevator; cost $20,000 to $25,000; date of opening bids not set. (Recently noted.)

Va., Richmond.—Watkins-Cottrell Company will erect business building; several stories.

Va., Richmond.—Thos. A. Gussin will erect two-story brick tenement (two stores); cost $3375.

Va., Roanoke.—S. D. Ferguson will erect store building; at least three stories; steel and concrete; 25x94 feet; fireproof construction; steam heat; gas and electric lighting; freight and passenger electric elevator; cost $25,000.

W. Va., Clark.—Thomas Miller will erect store; pressed brick; elevator; cost $7000; plans by Pedigo & Garry of Bluefield, W. Va.; building will be 28x60 feet; three stories; ordinary construction; hot-water heat; electric lighting; cement sidewalks; date of opening bids not set. Address owner.

W. Va., Matewan.—R. W. Buskirk is having plans prepared by Pedigo & Garry, Bluefield, W. Va., for store and hotel building recently noted; to have eight stores on ground floor. (See "Hotels.")

W. Va., Matewan.—R. W. Buskirk is having plans prepared for store and hotel building. (See "Hotels.")

W. Va., Northfork.—Toney & Thomas have plans by Pedigo & Garry, Bluefield, W. Va., for rebuilding burned store; two stories; brick; cost $5000.

W. Va., Parkersburg.—Messrs. Selden and Till Logan have plans by R. H. Adair, Parkersburg, for store and apartment building; two stories; brick; cost $10,000; lower floor for store; upper floor for apartments.

THEATERS

Ga., Atlanta.—Realty Trust Co. has plans by George E. Murphy, 332 Candler Bldg., Atlanta; for remodeling entrance to Forsythe theater and office building; cost $3000.

La., New Orleans.—French Opera Association, George Denegre, president, will receive bids through architects, Debuys, Churchill & Labouisse, Hibernia Bldg., New Orleans, for decorations and improvements to French Opera-house; improvements to include reconstruction of main entrance, erection of proscenium wall dividing stage from main auditorium, etc. (Previously noted.)

Md., Frostburg.—Louis Stanton purchased Moat building; will remodel, enlarge and convert into theater and dance hall; erect addition in rear; 60x60 feet; two stories; theater to seat 800 to 1000; plans by Holmboe & Lafferty, Clarksburg, W. Va.

Miss., Vicksburg.—H. Fitcheburg of New Orleans, La., will have plans prepared by William Stanton, Vicksburg, for proposed Alamo Theater; two stories; concrete and stone; main entrance to have marble floor; upper balconies of concrete; seating capacity, 900 to 1000.

N. C., Roanoke Rapids.—J. P. Robinson & Bros. have plans by T. M. House, Richmond, Va., for theater, store and office building; 51x140 feet; two stores, one on either side of entrance to theater; offices above stores; theater in rear; stores will be 60x20 feet; plate-glass fronts; construction begun; to be completed by June 1. (See "Machinery Wanted.")

Tenn., Chattanooga.—Jake Wells, Richmond, Va., will remodel Lyric Theater; plans to be prepared by architect Rooney of New York.

Tex., Madisonville.—W. M. and W. D. Evans will erect building; upper floor probably for opera-house. (See "Stores.")

Tex., Waco.—W. M. Lingenfelter, manager of Ideal Theater, will remodel theater and increase seating capacity from 247 to 447; cost $15,000.

W. Va., Fairmont.—C. L. Boggess has organized company and will erect moving-picture theater.

WAREHOUSES

Ala., Bessemer.—J. W. Barden will rebuild warehouse recently reported burned; 50x130 feet; ordinary brick construction; stoves; electric lighting; cement sidewalks. (See "Machinery Wanted.")

Ala., Mobile.—City will soon begin construction of steel warehouses and sheds along city wharves, for which $50,000 has been appropriated. Address Mayor Lyons.

Ga., Atlanta.—J. R. Smith will erect warehouse on Whitehall St. south of Stewart Ave., to be occupied by B. F. Avery Company, Louisville, Ky.; five stories; brick; mill construction; 60x170 feet; 60,000 square feet of floor space, capable of carrying 250 pounds per square foot; electric elevator, etc.; cost $45,000; plans by J. R. MacEchron, Candler Bldg., Atlanta.

Ky., Louisville.—Wilson Furniture Co., 31st and Magazine Sts., will erect warehouse; brick construction.

La., New Orleans.—Sugar Planters' Storage & Distributing Co. incorporated with $1,000,000 capital stock by John E. Burguieres, J. Hechinger, F. A. Bonvillian, C. S. Mathers and others.

N. C., Greensboro.—Guilford County Co-operative Supply Co., R. W. H. Stone, secretary, will not at present erect warehouse. (Recently noted organized with $2500 capital stock and to erect warehouse.)

Okla., Oklahoma City.—Oklahoma Alfalfa Products Co. will erect warehouses, etc. (See "Flour, Feed and Meal Mills.")

Tex., Olney.—Farmers' Union Gin & Warehouse Co. incorporated by C. W. Junker and others. (See "Cotton Compresses and Gins.")

Tex., Dallas.—Bids received until March 27 for erection of five-story concrete warehouse for Huey & Philip Hardware Co.; freight elevators; cost $50,000.

BUILDING CONTRACTS AWARDED

APARTMENT-HOUSES

Tenn., Chattanooga.—A. A. Dragoo awarded contract to J. H. Orr, Eames Bldg., Chattanooga, to erect apartment-house; brick; composition roof; cabinet mantels; hard pine interior finish; gas and electric lighting; baths and lavatories; cost $8000; plans by Charles E. Bearden, Chamberlain Bldg., Chattanooga. (Recently noted.)

Tex., Dallas.—W. D. Hume has plans by Brickey, Bryan & Brickey, 1313 Praetorian Bldg., Dallas, for apartment building; 54x70 feet; brick veneer; electric wiring; cost $8000; general contract awarded to W. L. Spencer, Dallas; all other contracts placed.

Tex., Houston.—C. D. Hill & Co. are preparing plans for two-story apartment-house in Fourth ward; three stories; 50x100 feet; mill construction; cost $20,000; contract awarded.

Tex., Houston.—Dr. E. S. Heisig awarded contract to Lamb-Field Company, Houston, to erect apartment-house; three stories; 12 four and five-room apartments; brick and concrete; cement stucco trimmings; 96x68 feet; hot-water heating plant in basement; cost $40,000.

ASSOCIATION AND FRATERNAL

Fla., Tallahassee.—Benevolent Protective Order of Elks awarded contract to F. C. Gilmore, Tallahassee, to erect building; pressed brick; stone trimmings; cost $10,000.

Mo., St. Louis.—Young Women's Christian Association awarded contract to Selden-Breck Construction Co., St. Louis, to erect proposed association building; five stories; 115x150 feet; fireproof construction; steam heat; cost $250,000; plans by Mariner & LeBeaume, St. Louis.

BANK AND OFFICE

Ark., Hamburg.—Farmers' Savings Bank & Trust Co. awarded contract to Nolley Bros., Hamburg, to erect bank building; 22x75 feet; plate glass; tile floors; cost $5000.

Ark., El Dorado.—First National Bank awarded contract to Frank Marling, Monroe, La., to erect bank building; 25x90 feet; steam heat; cost $16,000; plans by Smith & Barthel, Monroe, La.

D. C., Washington.—E. H. Snyder, 1111 Pennsylvania Ave. N. W., awarded contract to John Nolan, 1413 G St. N. W., Washington, to erect store and office building at 1411 G St. N. W.; two stories; cost $12,000; plans by Wood, Donn & Deming, 808 17th St. N. W., Washington. (Recently noted to have plans by above architects.)

Fla., Madison.—First National Bank awarded contract to Caldwell Company, Winston-Salem, N. C., incorporated by T. J. Caldwell, J. A. Conley and others, to erect bank building; two stories; 25x100 feet; cost $10,000; plans by W. B. Camp. (Recently noted to receive bids until March 15.)

Md., Goldsboro.—Building committee of Goldsboro Bank awarded contract to H. B. Pilchard, Pocomoke City, Md., to erect bank building; pressed brick; Indiana limestone trimmings; slate roof; tile floor in lobby; metal ceiling and oak trimmings; cost $4500.

N. C., Charlotte.—Pound & Moore awarded contract to Northey & Cooper for remodeling office building.

CHURCHES

Fla., Tampa.—Palm Avenue Baptist Church awarded contract to Chas. T. Friend, Tampa, to erect three-story Sunday-school building; brick; 60x120 feet; cost $15,000.

Ky., Earlington.—Methodist Episcopal Church South will expend $5000 to erect 44x66-foot edifice; ordinary construction; heating contract not let; lighting to cost $400; plans by Clifford, Shopbell Company, Evansville, Ind.; contract recently noted awarded to Wooten & Reynolds, Madisonville, Ky.

Md., Baltimore.—Augsbury Evangelical Church, Garrison & Bateman Aves., Mont Alto, awarded contract to E. G. Turner, 2010 Harlem Ave., Baltimore, to erect edifice; one story; slate and terra-cotta roof; cost about $25,000; plans by J. E. Lafferty, 11 E. Pleasant St., Baltimore. (Lately mentioned.)

Miss., Biloxi.—Seashore Camp awarded contract to Mr. Burke, New Orleans, La., to erect tabernacle to replace present structure; cost $6000.

S. C., Columbia.—Ebenezer Lutheran Church awarded contract at $10,377.75 to Weston & Brooker, Columbia, to erect Sunday-school building; plans by James B. Urquhart, Columbia. (Recently noted to receive bids until March 20.)

Tex., San Marcos.—Methodist church awarded contract to J. W. McBride, San Marcos, to improve and remodel edifice, including gallery on three sides of main auditorium, with steps from lobby and pulpit at end of gallery on each side; graded floor; enlarging and raising pulpit; installation of $3500 pipe organ.

Tex., Hondo.—Lutheran church awarded contract to Hunt & Jones, Hondo, to erect edifice; brick construction.

Tex., Memphis.—Presbyterian Church has plans by and awarded contract to James Cobb, Memphis, to erect edifice; 69x89 feet; electric lighting; concrete sidewalks; cost $25,000. (Recently noted.)

CITY AND COUNTY

Fla., Tampa—Fire Station.—City awarded contract at $12,950 to T. A. McGucken, Tampa, to erect No. 1 fire station; plans by F. M. Curtis, 18 First National Bank Bldg., Tampa. (Recently noted to receive bids until March 21.)

Tex., Sabinal—Jail.—City awarded contract to A. P. Toepperwein to erect jail.

Tex., Wellington — Jail. — Collingsworth county jail building will be of fireproof construction; 39 feet 10 inches by 36 feet 6 inches; brick walls; I beams and corrugated arch; concrete floors; composition roof; contract recently noted awarded to Southern Structural Steel Co., San Antonio, Tex., at $8950. (See "Machinery Wanted.")

COURTHOUSES

La., Lake Charles.—Calcasieu parish awarded contract at $180,132 to Texas Building Co., Fort Worth, Tex., to erect courthouse; brick; terra-cotta trimmings; plans by Favrot & Livaudais, New Orleans, La. (Recent awards rescinded.)

DWELLINGS

D. C., Washington.—H. R. Norton, 209 Half St. S. W., awarded contract to W. E. Mooney, 1425 New York Ave. N. W., Washington, to erect one-story frame dwelling at 3728 New Hampshire Ave. N. W.; cost $8000; plans by A. W. Richards, 415 New Jersey Ave. N. W., Washington.

D. C., Washington.—J. B. Lanaham, 108 H St. N. W., and F. D. Klimkiewicz, 1306 E St. N. E., have plans by and awarded contract to F. D. Klimkiewicz, 1306 E St. N. E., Washington, to erect six two-story brick dwellings at 1300 to 1310 Shepherd St. N. W.; cost $12,000.

D. C., Washington.—Frank H. Ellis, 918 M St. N. W., awarded contract to H. H. Spencer to erect residence on Fulton St., Cathedral Highlands; frame construction; stone foundation; slate roof; oak floors; beam ceilings; panels in dining-room; eight rooms and attic; front and side porches; electric and gas lights; hot-water heat.

Fla., Starke.—Mrs. Bowkley awarded contract to Bradley Bros., Raiford, Fla., to erect residence; two stories.

Fla., Tallahassee.—Mr. Windham awarded contract to F. C. Gilmore of Gilmore & Davis, Tallahassee, to erect residence.

Ga., Dalton.—W. M. Hardwick will erect residence; colonial style; cost $6000; construction begun; J. L. Wallace, contractor, Dalton. (See "Machinery Wanted.")

Md., Baltimore.—Joseph T. Lawton awarded contract to Willard E. Harn Company, 213 N. Howard St., Baltimore, to erect proposed dwelling; 49x35 feet; frame; cost $5000.

Md., Baltimore.—John T. Donohue, 1808 Thames St., has plans by and awarded contract to M. R. Stone, 2238 E. Hoffman St., Baltimore, to erect 11 dwellings on Fleet St.; two stories; brick; 13x43 feet; cost $11,000.

Md., Baltimore.—John W. Morris of Surry Lumber Co., Union Trust Bldg., awarded contract to Murray & Haynes, Baltimore, to erect dwelling on Allendale Ave., between Duvall and Moreland Aves.; two stories; frame; 28x26 feet; slate roof; electric lights; hot-water heat; cost at least $4000; plans by Henry J. Tinley, 314 N. Charles St., Baltimore.

Md., Frederick.—J. D. Hendrickson has plans by B. Evard Kepner, Frederick, for bungalow; 34x40 feet; mill construction; steam heat; electric lighting; cost $3500; contract awarded to W. C. Kemp, Frederick.

Md., Rogers Station, P. O. Stevenson.—Champlin Robinson awarded contract to H. A. Kelbaugh, 1945 Harlem Ave., Baltimore, to erect cottage; two stories; ornamental, with overhanging slate roof; bluestone foundation; plans by Lawrence H. Fowler, 347 N. Charles St., Baltimore.

N. C., Durham.—Trinity College awarded contract to Salmon & Salmon, Durham, to erect residence for Bishop J. C. Kilgo; two stories; 12 rooms; ordinary construction; low-pressure steam heat; cost $10,000; plans by Hook & Rogers, Charlotte, N. C.; construction begun. (Recently noted.)

N. C., Oxford.—J. G. Hall awarded contract to W. H. Fogleman, Oxford, to erect proposed dwelling; 10 rooms; cost $7500; plans by Linthicum & Rose, Durham, N. C.

N. C., Oxford.—F. P. Blalock awarded contract to Fogleman & Turner, Oxford, to erect proposed dwelling; seven rooms; frame construction; cost $2850; plans by Linthicum & Rose, Durham, N. C.

N. C., Wilmington.—W. E. Perdew awarded contract to Rogers & Thomas, Wilmington, to erect two-story 12-room residence; cost $6000.

Tenn., Hill City.—Mrs. Percy Marshall awarded contract to W. L. Cook to erect dwelling on Forest Ave.; stucco and brick; nine rooms; cost $5000; plans by Huntington & Sears, Chattanooga, Tenn.

Tex., Brackettville.—Henry Veltmann, Jr., awarded contract to Frank Jeffries to erect eight-room dwelling; two stories; lumber and shingles; cost $3500. (Recently noted.)

Tex., Bryan.—W. Wipprecht awarded contract to W. H. Myerlambers, Bryan, to erect two-story residence.

Tex., Houston.—Ira T. King, Mobile, Ala., awarded contract to Maxwell & Syfan, Houston, Tex., to erect three residences; two stories; eight rooms; cost $4000 each.

Tex., Hubbard.—R. L. White awarded contract to T. Dalton for erection of 10-room dwelling; ordinary construction; cost $3500; plans by J. O. Galbraith, Hillsboro, Tex.

Va., Norfolk.—A. J. Ward awarded contract to Sawyer Bros., Norfolk, to erect dwelling corner Granby and 33d St.; two stories; frame; cost $6200.

Va., Richmond.—Frank W. Carter awarded contract to Delaney & Gann for erection of dwelling and stable; dwelling 61x27 feet; stable 25x30 feet; ordinary and mill construction; hot-water heat; cost $5700; plans by I. W. Throckmartin, 6th and Broad Sts., Richmond. (Recently noted.)

GOVERNMENT AND STATE

Tex., Galveston—Immigration Station.—Inspector of Immigration Alfred Hampton, Galveston, awarded contract to M. C. Bowden, Galveston, for construction of United States immigration station on Pelican Island; enclosed passageway will lead from landing; cost about $55,000; plans by Geo. B. Stowe & Co., Galveston. (Mr. Bowden recently noted as lowest bidder.)

HOTELS

La., Lake Charles.—Lake Charles Hotel (Cagney & Christman, owners) will expend $12,000 to erect addition to hotel and improve present structure; three stories; 38x84 feet; ordinary construction; heating contract separate; plans by E. W. Phillips, Lake Charles; contract recently noted awarded to Delatte & Lagrange, Lake Charles.

Tex., Brackettsville.—Mrs. Martha Terrell awarded contract to Jeffers & Co., San Antonio, Tex., to erect hotel to replace burned structure; cost $5000.

Tex., Dallas.—Imperial Hotel, A. B. Kirkpatrick, owner, awarded contract to W. L. Spence, Dallas, to erect hotel; five stories; 40x86 feet; ordinary brick construction; cost $15,000; plans by Associated Architects, 513 Slaughter Bldg., Dallas.

W. Va., White Sulphur Springs.—Chesapeake & Ohio Railway Co., F. I. Cabell, chief engineer, Richmond, Va., awarded contract to R. H. Richardson & Son, Hampton, Va., to erect addition to hotel. (Previously noted to purchase property and erect annex to hotel, etc.)

MISCELLANEOUS

Tenn., Memphis—Natatorium.—J. A. Omberg, Jr., is proceeding with construction of 45x105-foot one-story natatorium for Linden Natatorium Co., 400 Linden Ave.; plans by Eeley & Weller, Royal Bldg., Memphis. (See "Machinery Wanted.")

Va., Richmond.—Richmond & Henrico Railway Co., 2-4-6 Ebel Bldg., awarded contract to P. J. White & Son, 1110 Main St., Richmond, to erect car barn at Fulton; fireproof construction; cost $22,000; Jackson Bolton, engineer; previously noted to receive bids until February 18. (See "Machinery Wanted.")

Va., Ocean View—Pavilion.—Seaside Amusement Co. awarded contract to John H. Pierce & Son, Norfolk, Va., to erect pavilion; double deck; 200x100 feet; entire first floor in granolithic; second story to have enclosed floor for dancing 162x50 feet, with promenade and seating gallery entirely surrounding same; over 8000 square feet dancing space; cost $25,000. (Recently noted under Norfolk, Va., to be erected by Norfolk & Portsmouth Traction Co.)

RAILWAY STATIONS

Okla., Anadarko.—Chicago, Rock Island & Pacific Railway Co., J. B. Berry, chief engineer, Chicago, Ill., awarded contract to T. S. Leake Company, 112 S. Clark St., Chicago, to erect proposed railway station; one story; 30x148 feet; frame, brick and stucco; art marble floors, brick platforms; vapor steam heat; electric lighting; cost $18,000; plans by A. T. Hawk, 806 La Salle St., Chicago.

Okla., Lawton.—Chicago, Rock Island & Pacific Railway Co., J. B. Berry, chief engineer, Chicago, Ill., awarded contract to T. S. Leake Company, 112 S. Clark St., Chicago, to erect passenger station; 30x148 feet; one story; frame, brick and stucco; vapor steam heat; electric lighting; cost $18,000; plans by A. T. Hawk, 806 La Salle St., Chicago (Recently noted.)

S. C., Rockhill.—Southern Railway, D. W. Lum, chief engineer, Washington, D. C., awarded contract to Elliott Construction Co., Hickory, N. C., to erect passenger station; 32x150 feet; pressed brick; granite trimmings; tile roof; steam heat; electric lights; electric baggage lift; cost about $50,000. (Previously noted to erect this structure.)

SCHOOLS

Fla., Pensacola.—Perpetual Adoration Order awarded contract to Jett Bros. Contracting Co., Mobile, Ala., to erect proposed convent; three stories; brick.

Ky., Hardinsburg. — Breckinridge County Commissioners awarded contract at $8985 to Owensboro (Ky.) Planing Mill Co. to erect high-school building; two stories and basement; frame; concrete basement floor; solid brick foundation to first floor; eight rooms.

Ky., Simpsonville.—Lincoln Industrial Institute awarded contract at $100,005 to Geo. H. Rommel Company, Louisville, Ky., to erect proposed industrial and normal school for negroes, including administration building, boys' and girls' dormitories, industrial building, manual training building and four homes for workers; has $250,000 endowment.

N. C., Grensboro.—Greensboro Female College awarded contract to John T. Hunt & Bros., Greensboro, to erect dormitory building; ordinary construction; low-pressure steam heat; electric lights; cost about $25,000. (Recently noted as having plans by Hook & Rogers, Charlotte, N. C.)

Okla., Enid.—City awarded contract to erect proposed high-school building as follows: For construction at $125,066 to Wuster Construction Co., Wichita, Kans.; for plumbing at $22,000 to Lewis Kitchen Company, Kansas City, Mo.; for electric wiring at $3250 to Kennedy Mercantile Co., Enid.

Tenn., Memphis.—James F. Hunter, chairman building committee, advises Manufacturers Record that the various contracts for construction of West Tennessee Normal School have been modified to come within appropriation of $427,000; contemplate having school ready for occupancy about April, 1912; general contract previously noted awarded to James Alexander & Co. and R. B. Johnson of Memphis to connect waterworks.

Tex., McKinney.—School Board awarded contract to McCormick & Godwin for erection of two school buildings; eight rooms each; two stories; mill construction; cost $10,000 each; plans by R. T. Forsythe, Denison, Tex. (Recently noted.)

Va., Lynchburg.—Washington and Lee University awarded contract to M. P. Stoddard, Staunton, Va., to erect dining hall; red brick; stone trimmings; colonial style; 45x34 feet; 18½-foot pitch; seating capacity 125 to 150; boiler in basement for supplying heat and steam for cooking; cost $16,000; plans by Benjamin C. Flournoy, 1129 14th St. N. W., Washington; construction under supervision of D. C. Humphreys of the university.

Va., Richmond.—School Board awarded contract to J. T. Nuckols for erection of Grace Arents School on Pine St., between China and Holly Sts.; brick, concrete and steel; cost $30,000. (School Board recently noted as asking $600,000 appropriation for five white and four negro schools.)

STORES

Ala., Fayette.—Smith, Dodson & Co. awarded contract for erection of building to replace structure reported burned.

Ala., Fayette.—W. M. Cannon awarded contract to erect building to replace burned structure.

Ala., Fayette.—Peters & Young awarded contract to erect store building to replace structure reported burned.

Ark., Hamburg.—George & Butler awarded contract to Nolley Bros., Hamburg, to erect proposed store building; 69x22 feet; ordinary construction; cost $18,000.

Ark., Hamburg.—Sorrel Savage awarded contract to Nolley Bros., Hamburg, to erect store building; 28x144 feet; pressed brick; plate glass; cost $52,000. (Previously noted.)

Ark., Eldorado.—Mrs. L. D. Shuler awarded contract to W. B. Smith, Eldorado, to erect four brick buildings to replace structures recently burned.

D. C., Washington.—E. H. Snyder, 1111 Pennsylvania Ave. N. W., awarded contract to erect store and office building. (See "Bank and Office Buildings.")

Ga., Rome.—Simpson Grocery Co. awarded contract to J. F. Pupree, Rome, to erect business building; three stories; 66x164 feet; three rooms; brick construction; gravel roof; cost $21,000.

Ga., Tifton.—Golden Hardware Co. will expend $20,000 to erect business building; 61x100 feet; mill construction; heating plant to cost $1500; lighting, $400; plans by W. A. Edwards, Atlanta, Ga.; contract recently noted awarded to W. H. Spooner, Tifton. (See "Machinery Wanted.")

La., White Castle.—Levy & Joseph will expend $16,000 to erect store building; 60x90 feet; ordinary construction; electric lighting; concrete sidewalks; plans by Emile Weil, New Orleans, La.; contract recently noted awarded to Neville & Swiler, 1020 Maison Blanche Bldg., New Orleans.

Md., Baltimore.—C. W. Pacy Company, 1108 S. Charles St., will erect store building at 1102 S. Charles St.; one story; brick; 70x84 feet; slate roof; arcade and roof garden; fireproof construction; steam heat; gas and electric lighting; cement sidewalks; cost $16,000; plans by J. E. Lafferty, 11 E. Pleasant St., Baltimore; contract awarded to A. F. West, 405 Builders' Exchange, Baltimore.

Md., Baltimore.—Herbert Friedenwald of New York, represented by Charles F. Stein, Law Bldg., Baltimore, awarded contract to C. C. Watts, 113 W. Hamilton St., Baltimore, to erect two-story addition at 328 and 330 W. Lexington St.; 32x34 feet; cost about $3000.

Md., Baltimore.—Baltimore Bargain House, Jacob Epstein, proprietor, 204-220 W. Baltimore St., awarded contract to Noel Construction Co., German and Calvert Sts., Baltimore, to erect building at Liberty and Baltimore Sts.; 12 stories (168 feet high); Indiana limestone up to second floor; upper stories light tapestry brick interspersed with terra-cotta; ornamental-iron cornices; fireproof construction; plate-glass show windows on first floor; main entrance 20 feet wide; finish of vestibule and steps of white marble; iron marquise over entrance and extending to curb; highly polished bird's-eye maple floors; each floor to have about 20,000 square feet space; 94x167 feet; offices on first floor for 250 clerks; two high-speed passenger elevators and four freight elevators; duplex chute for conveying merchandise; pneumatic tubes to carry official papers to main office. (Recently noted as having awarded contract to this company.)

N. C., Charlotte.—W. C. & W. F. Dowd awarded contract to Northey & Cooper, Charlotte, to erect store building; two stories; 85x96 feet; mill construction. (Previously noted.)

N. C., Granite Falls.—W. E. Starnes will erect 20x32 concrete building to replace structure reported burned; gasoline lighting; plans and construction by C. R. Payne, Granite Falls. (See "Machinery Wanted.")

N. C., Wilmington.—D. R. Foster awarded contract to W. P. Rose, Wilmington, for one-story three-room building; Grecian style; cost $3000.

N. C., Oxford.—Mrs. R. E. Brown awarded contract to Fogleman & Turner, Oxford, to erect proposed store building; two stories and basement; 57x69 feet; brick and steel; pressed-brick front; cost $8800; plans by Linthicum & Rose, Durham, N. C.

Tex., Galveston.—S. H. Kress & Co., 396 Broadway, New York, awarded contract to remodel store on Market St.; will erect two-story addition; 25 feet long; cost $7500; J. W. Mack, superintendent construction for the company.

Tex., Laredo.—A. J. Eistetter, San Antonio, Tex., has contract to erect proposed Richter building; brick and steel; plate and prism glass frontage of 170 feet.

Tex., Waco.—Judge George Clark awarded contract to erect three stores on Washington St., between 6th and 7th Sts.; one story; brick.

Tex., Winchester.—F. Reinsch awarded contract to William Plummer, Smithville, Tex., to erect brick business building; 30x80 feet; cost $3000.

Va., Newport News. — Mrs. Bentley K. Stearnes will erect brick and stone business building; 25x100 feet; ordinary construction; cost $15,000; contract awarded to J. W. Davis, Box 564, Newport News; plans by Lee & Diehl, Norfolk, Va.

Va., Portsmouth.—D. J. & B. C. Sullivan have plans by and awarded contract to E. B. Wilkins, Portsmouth, to erect display-rooms for vehicles; fireproof construction; concrete floor; gravel roof; cost $3500.

Va., Portsmouth.—S. Goodman awarded contract to E. L. Wilkins, Portsmouth, to erect store building; two stories; frame; cost $3000.

W. Va., Welch.—Hutson Bros. awarded contract to Marshall & Co., Roanoke, Va., to erect store; plans by Pedigo & Garry, Bluefield, W. Va. (Lately mentioned.)

WAREHOUSES

Ky., Louisville.—Louisville Public Warehouse Co. awarded contract to A. Bentley, Toledo, O., to erect warehouse; three stories and basement; 120x180 feet; cost $40,000; plans by D. X. Murphy & Bro., Louisville.

Md., Baltimore.—William Suchting & Sons, 601 Portland St., has plans by and awarded contract to F. C. Carstens, 319 N. Carrollton Ave., Baltimore, for erection of warehouse recently noted; three stories; 46x121 feet; ordinary construction; steam heat; gas and electric lighting; cement, vitrified brick and cement base for sidewalks; electric elevator; cost $14,000.

Fla., Jacksonville.—United Grain & Elevator Co. awarded contract to W. T. Hadlow Company, 510 West Bldg., Jacksonville, to erect proposed warehouse; 40x200 feet; brick; ordinary construction; cost $11,250; plans by W. B. Talley, 511 West Bldg., Jacksonville.

RAILROAD CONSTRUCTION

RAILWAYS

Ark., Fort Smith.—Plans have been prepared for the proposed union passenger station to be used by the Frisco system, the Kansas City Southern and the Fort Smith & Van Buren lines. M. C. Byers is chief engineer of the Frisco at St. Louis, Mo., and C. E. Johnson is chief engineer of the Kansas City Southern at Kansas City, Mo.

Ark., Fort Smith.—An officer of the Rock Island system denies the press report that it controls the Coal & Gas Belt Electric Co., organized to build an electric railway connecting Hartford, Huntington, Mansfield and Midland, Ark., with headquarters at Huntington, Ark.

Ark., McCrory.—The McCrory & Beedeville Southern Railroad is reported to have laid more than three miles of track on its line from McCrory to Beedeville, while eight or ten miles have been graded. Connection will be made with the Bonnerville Southern out of Jonesboro, Ark.

Ark., Nashville.—An official letter says that work on the line of the Memphis, Dallas & Gulf Railroad from Murfreesboro via Graysonia to Arkadelphia, Ark., 45 miles, is let in section of from one to five miles to several contractors. Bridges as follows: Eight of 60 feet each; eight of 100 feet each, and one of 200 feet, all being steel. Route is through rolling country; officers, W. W. Brown, president; C. C. Henderson, vice-president and general manager; W. E. Grayson, treasurer; J. W. Bishop, secretary; A. M. Van Auken, chief engineer; headquarters at Nashville, Ark.

Ark., Pine Bluff.—P. C. Allen of Pine Bluff is reported promoting a plan for the construction of the Memphis, Arkansas, Oklahoma & Gulf Railroad to run from Memphis, Tenn., to Gainesville, Tex.

Fla., Gardner.—Concerning the report that it would build a railroad from Gardner to Lake Stearns to open up 30,000 acres of land, the Gardner Lumber Co. writes: "We are not building any railroad just now except for logging purposes."

Fla., Kissimmee.—The Southern Colonization Co., Graystone Hotel, is reported building a railroad in Osceola county. C. H. Armstrong is chief engineer.

Fla., Sanford.—President T. K. Miller of the Citrus Southern Railway Co. says that the proposed line is 45 miles long from Sanford to Kissimmee, Fla., via Orlando; route mostly level. Address Orlando, Fla. Others interested are J. J. Brophy, vice-president; Moore Kelly, treasurer; John M. McCue, secretary; contract not yet awarded.

Ga., Albany.—The Georgia Southwestern & Gulf Railroad is reported to have secured right of way for an extension to Hawkinsville, Ga., about 35 miles. W. M. Legg is president at Albany, Ga.

Ga., Macon.—The Macon, Dublin & Savannah Railroad, says a dispatch from Atlanta, has applied for authority to issue $225,000 of bonds for construction, extensions and improvements. J. T. Wright is vice-president and general manager at Macon, Ga.

Ga., Elberton.—Application is made to charter the Elberton & Eastern Railway Co. to build a line about 50 miles long from Elberton southeast to Lincolnton, Ga., via Washington, Ga., and traversing Elbert, Wilkes and Lincoln counties; capital $500,000; headquarters at Elberton. The petitioners are W. O. Jones, W. F. Anderson, J. H. Blackwell, L. M. Heard, R. L. Cauthen and

Z. B. Rogers of Elberton; W. J. Adams, J. J. Wilkinson and J. A. Moss of Tignall, and M. A. Pharr of Washington, Ga.

Ga., Macon.—The Southern Railway, it is reported, will spend $400,000 for improvements between Macon and Atlanta. This will include passing tracks and some curve and grade changes. W. H. Wells is chief engineer of construction at Washington, D. C.

Ga., Sparks.—An official of the Georgia & Florida Railway says that the proposed line from Sparks to Adel, Ga., will be two miles long. W. A. Swallow is chief engineer at Augusta, Ga.

Ga., Moultrie.—The Georgia & Florida Railway, says a dispatch, has completed its extension into Moultrie.

Ky., Frankfort.—The Business Men's Club of Frankfort is reported interested in a plan said to be backed by a syndicate of Eastern capitalists to build an electric railway from Frankfort to Shelbyville, Ky. Address The Secretary.

Ky., Hickman.—L. P. McClavy of Memphis, Tenn., says a dispatch, has taken a contract on the Nashville, Chattanooga & St. Louis Railway's belt line south of Hickman.

Ky., Pikeville.—James Skene & Sons Company of Huntington, W. Va., it is reported, have been awarded contract for the concrete and masonry work on the Sandy Valley & Elkhorn Railway of the Consolidation Coal Co., which is to run from the mouth of Shelby Creek, on the Chesapeake & Ohio Railway, southwest 28 miles to coal fields. Information is received that the general contractors, Langhorne & Langhorne, will take sections 1 and 7, the first and the last on the work, others being sublet thus: Section 2, Pitts & Co. of Scottsville, Va.; section 4, Ryan & Co., South Portsmouth, O.; section 5, Waugh & Waugh, Cincinnati, O.; section 6, Ballard & Herring, Cincinnati, O. The third section does not appear to be awarded as yet.

La., Lake Providence.—The American Forest Co. of Buffalo, N. Y., and A. R. Byrd & Sons, says a dispatch, contemplate building a railroad from Portland, Ark., on the Iron Mountain Route, southeast through Oak Grove to Lake Providence, and thence southwest to connect with the Vicksburg, Shreveport & Pacific Railway at possibly Waverly, La. Bonus is sought. H. S. Janes of Buffalo is said to represent the builders. J. M. Kennedy is chairman of a committee at Lake Providence, La.

Mo., Ava.—The Kansas City, Ozarks & Southern Railroad, it is reported, will build an extension to a point on White River. J. B. Quigley is chief engineer at Ava, Mo.

Mo., Fristoe.—A railroad club is reported formed with E. E. Trippe, president, for an electric line between Warsaw and Cross Timbers, the line to be continued to Springfield, Mo. B. O. Taylor of Bosworth, Mo., is also interested.

Mo., Golden City.—The Oklahoma & Golden City Railway, says a dispatch, has let contract to William Love of Indianapolis, Ind., for its proposed line to connect Golden City, Stockton, Springfield and Jefferson City, Mo., and Fairview, Okla., 400 miles.

Mo., Kansas City.—Porter Bros., of Seattle are reported to have been given a contract for about $500,000 of work on the grade reduction plans of the Kansas City Southern, between Greenwood and Neosho. C. E. Johnston is chief engineer at Kansas City. The railroad company will do all the work which does not include detouring. About 23 miles of track altogether will be lowered. It is said most of the work will be sublet. List & Gifford of Davenport, Iowa, have been given a subcontract for considerable of it. Others mentioned are Hannon & Hickey Bros. of St. Louis, Woods, Bancroft & Doty of Chicago, and the Lund Company, also of Chicago. Several other subcontracts may be let. An official writes that the work consists of short changes of line to reduce grades. About 1,500,000 cubic yards will be handled.

Mo., Kansas City.—The Kansas City, Clay County & St. Joseph Railroad Co. has been chartered with $750,000 authorized capital to build an electric railway 53 miles long from Kansas City to St. Joseph, Mo. It is said that the line will be built also to Excelsior Springs, with a branch to St. Joseph. The stockholders are George Townsend, George Beardsley, W. A. Medill and U. S. Grant Peabody, all of Kansas City. Ward S. Arnold is also said to be interested.

Mo., Golden City.—An officer confirms report that the Oklahoma & Golden City Railroad Co. has let contract to William Love of Indianapolis, Ind., for its proposed line from Fairview, Okla., to Jefferson City, Mo., 400 miles, with branches to Springfield and Lime Creek, Mo. Line will run from Fairview via Enid, Fairfax, Pawhuska, Bartlesville and Miami, Okla.; Joplin, Golden City, Stockton, Climax Springs, Eldon and Jefferson City, Mo. There will be six large bridges and several smaller ones. Route is mostly level, but some is rolling country, and a small portion rough. C. E. Hogarty of New York is president; E. M. Dempsey of Enid, Okla., vice-president; D. E. Ketcham, treasurer; John A. Griesel, general manager, both of Golden City, Mo.; W. H. Reed, secretary; J. W. Fewell, chief engineer; E. E. Griestead, Pawhuska, Okla.; A. F. Mehan of Golden City, Ed. C. Griesel of Muskogee, Okla.; J. W. Griesel of Pawnee, Okla.; A. S. Vaughn of Bolivia, Mo.; M. H. Cooper of Pittsburg, Mo., and R. M. Crutcher of Arcola, Mo.

N. C., Burlington.—Information is received confirming the report that the Southern Traction & Power Co. property has been purchased by J. W. Murray of Burlington, but a reorganization is not yet effected. Completion of the work is in prospect.

N. C., Charlotte.—Application to charter the Charlotte & Norwood Railway Co. is reported made. In addition to the points named in the title, the line will touch Troy, Mount Gilead and Fayetteville. Among those interested are M. C. Mayer, D. P. Hutchison, N. S. Alexander, C. G. Creighton, J. A. Hancock, A. Little and J. F. Shinn.

N. C., Raleigh.—One of the incorporators of the Raleigh, Charlotte & Southern Railroad Co. confirms report that charter has been granted, but says that organization is not yet perfected. Another report says that the proposed line will run from Raleigh to Charlotte via Pittsboro, Asheboro and Albemarle, about 130 miles. The incorporators are J. S. Efird, W. M. Mann, A. C. Heath, S. H. Hearne, R. L. Smith, A. L. Cornell, W. I. Lee and R. L. Brown of Albemarle, N. C.; D. A. Tompkins of Charlotte, Arthur H. London, T. M. Bland, Fred C. Williams, Leon T. Lane, Bennett Noce and H. M. London of Pittsboro, N. C.; W. C. Hammer, J. D. Ross, Marvin Kearns, W. M. Parrish and O. R. Cox of Asheboro, N. C.

N. C., Rutherfordton.—George L. McKay, general manager of the North Carolina Interurban Railway Co., is quoted as saying that construction will begin between Charlotte and Asheville, N. C., by May 15. Contracts will, therefore, be let earlier than was expected. French capital is back of the plan. W. M. Peyton, Rutherfordton, N. C., is chief engineer.

N. C., Washington.—The Chamber of Commerce has started a movement to build an extension of the Mattamuskeet Railroad from Belhaven to Washington. It is said that two-thirds of the rights of way have been secured. A. M. Dumay is secretary.

N. C., Winston-Salem.—One of the gentlemen interested in the proposed Raleigh, Winston & Western Railway writes that it is too early to make any statement concerning the plans. Nothing definite is decided.

S. C., Ehrhardt.—The Ehrhardt & Denmark Railway Co. has been granted a commission for its proposed line between Ehrhardt and Denmark, S. C., 17 miles. The petitioners are C. W. Garris, S. G. Ray, Charles Ehrhardt, J. B. Guess and J. L. Copeland.

S. C., Greenville.—W. J. Oliver & Co. of Knoxville, says a report, have established offices in the Masonic Temple Bldg. at Greenville preparatory to beginning work on their contract to build the Piedmont & Northern Railway from Greenwood via Greenville to Spartanburg, S. C., 95 miles. H. J. Dunavant will, it is said, represent the contractor at Greenville. It is understood that subcontracts have been let thus: Kline & Co. of Charlotte, N. C., all wooden trestlework between Greenville and Greenwood; Huett & Co. of Marion, N. C., the concrete work between Piedmont and Williamson; J. L. Hunnicutt & Co. of Chattanooga, Tenn., the first five miles of grading out of Greenville; W. L. Marshall & Co. of Knoxville, Tenn., the first four miles out of Greenwood. S. C.; McCormick & Co. of Evansville, Ind., the next five miles from Greenwood. Oliver & Co., it is said, will also open an office at Belton, S. C., on the work.

Tenn., Henderson.—A movement has been started to build an electric railway through Chester county, beginning at either Henderson or Jackson and running thence to the Tennessee River and thence to Savannah, Tenn. A committee, consisting of William Lea, J. W. Stewart and N. B. Hardeman, has been appointed.

Tenn., Chattanooga.—Dunavant & Co. of Knoxville, Tenn., are reported to have been given a contract to grade a new line for the Nashville, Chattanooga & St. Louis Railway between Lookout Mountain and Wauhatchie.

Tenn., Greenville.—A dispatch says that the contractors for the Greenville & Nolachuckey Railway, which is to run from a point near Greenville to Walton, Tenn., have begun work.

Tenn., Memphis.—A dispatch quotes President B. L. Winchell of the Frisco system as saying that nothing has been done since 1903 toward building a railroad from Memphis to Baton Rouge, La. This denies a current report that the company now contemplates building such a line.

Tenn., Memphis.—An official of the St. Louis & San Francisco Railroad is quoted as saying that grading contracts for the new yard at Bellevue, near Memphis, has been let to J. H. Weatherford of that city, but the eight miles of yard tracks will be built by the company's forces.

Tenn., Nashville.—The Fidelity Securities Corporation, with $200,000 authorized capital, has been chartered under the laws of Delaware, possibly in connection with the plans to build electric railways out of Nashville. The incorporators include H. H. Mayberry of Franklin, Tenn., R. A. Bailey, Jr., and J. A. Pitts of Nashville, Tenn. Mr. Mayberry proposes a line to Gallatin.

Tex., Fort Worth.—The Stone & Webster Engineering Corporation of Boston, represented in Fort Worth by G. H. Clifford, general manager of the Northern Texas Traction Co., is reported making active preparations to build the proposed interurban railway from Fort Worth to Cleburne, Tex., and survey will begin within a week.

Tex., Pecos.—Preliminary contract is reported closed between M. J. Healy and the Utah Railway & Construction Co. of Salt Lake City, represented by C. H. Beatty, for building a proposed railroad from Pecos to Tucumcari and Knowles, N. M.

Tex., San Saba.—Levy & Owens, says a letter, have let to W. H. Patton the bridging on 28 miles of railroad work in San Saba and McCulloh counties, and he is placing outfits under rush orders. J. S. Boyles is engineer, 210 Moore-Burnett Bldg., Houston, Tex.

Tex., Vernon.—An officer of the American Central Railways Co., 60 New St., New York, writes that no contract has been awarded. This denies the recent press report that contract has been let to the Central Construction Co. for a line from Vernon to Hoover, Tex.

Va., Norfolk.—The Norfolk Terminal Railway Co., says a dispatch, has authorized a bond issue of $2,000,000 to pay for its proposed terminal. L. E. Johnson is president at Roanoke, Va.

Va., Norfolk.—A two-mile branch is reported under construction from Beachwood, on the Cape Henry division of the Norfolk Southern Railroad, to Chesapeake Park, in which Herbert L. Smith and others are interested.

Va., Richmond.—Stockholders of the Chesapeake & Ohio Railway will meet April 29 to vote on a proposed bond issue of $125,000,000, most of which will be reserved for extensions, terminals, improvements and equipment from time to time as needed.

W. Va., Bluefield.—H. R. Leyden, consulting engineer of the New River Power Syndicate, which has acquired the Bluestone Traction Co.'s property, is reported investigating regarding the proposed extension of the electric railway around Bluefield.

W. Va., Morgantown.—Rumored that the Pittsburg & Lake Erie Railroad contemplates building an extension from Point Marion, Pa., to the mouth of Cheat River and thence along that stream to connect with the Morgantown & Kingwood Railroad. J. A. Atwood is chief engineer at Pittsburg, Pa.

STREET RAILWAYS

Ark., Little Rock.—The Little Rock Street Railway & Electric Co., it is reported, will build an extension southward on Gaines St. to 28th St., thence to Izard St. and back to 23d St. D. A. Hegarty is manager.

Ga., Augusta.—The Augusta Railway & Electric Co. has awarded contract to J. G. White & Co., 43 Exchange Pl., New York, for extensions and improvements, which will include an extension of one mile of single track. Reconstruction of considerable of the present tracks is under consideration.

Ga., Augusta.—J. G. White & Co., engineers and contractors, 45 Exchange Pl., New York, have been awarded contract by the Augusta Railway & Electric Co. for an extension of one mile of single track, besides much other work. It is also planned to reconstruct a large amount of the present tracks.

Ky., Nortonville.—The Nortonville Traction Co. is reported chartered; capital, $100,000. Frank E. Mohr, Columbus, Ohio; Frank G. Hoge, Nortonville, Ky., and T. F. Callard, Hopkinsville, Pa., are the incorporators.

S. C., Charleston.—The stockholders of the Charleston Consolidated Railway, Gas & Electric Co. have voted to ask authority for an increase of $1,000,000 in the capital stock to provide for improvements from time to time. Only a small part of the amount will be needed at present. P. H. Gadsden is president.

Tenn., Nashville.—The Nashville Railway & Light Co. has amended its charter to extend several lines, one of which will be an extension to East Nashville.

Tenn., Nashville.—The Nashville Railway & Light Co., it is anonunced, will build several extensions. Percy Warner is president and general manager.

Tex., Beaumont.—The Beaumont Traction Co., says an official, will spend more than $100,000 for improvements in the next few months, including about one and a quarter miles of double track, which will be done by the company's forces. C. H. Kretz is general manager.

Tex., Dallas.—George W. Works, general manager of the Dallas Street Railway Co., is reported as saying that contract has been let to L. M. Kirkes of Weatherford, Tex., for its proposed line, and that construction has begun. It covers 1¼ miles of street railroad with 80-pound rails. Line begins at Ross and Garrett Aves., following the former to Henderson, to Juliette and thence through private property.

Tex., San Antonio.—The San Antonio Traction Co., says a report, will build an extension to the new amusement park near Hot Wells. W. B. Tuttle is vice-president and general manager.

Va., Petersburg.—The Virginia Railway & Power Co., it is reported, contemplates building one or two extensions in Petersburg. Wm. Northrop is president and C. B. Buchanan general superintendent at Richmond, Va.

MACHINERY, PROPOSALS AND SUPPLIES WANTED

Manufacturers and others in need of machinery or supplies of any kind are requested to consult our advertising columns, and if they cannot find just what they wish, if they will send us particulars as to the kind of machinery or supplies needed we will make their wants known free of cost, and in this way secure the attention of manufacturers and dealers throughout the country. The Manufacturers Record has received during the week the following particulars as to machinery and supplies wanted.

Air Compressor.—Duzets & Son, 50 Church St., Hudson Terminal Bldg., New York, want prices on belted-type compressor, 250 to 350 cubic feet, with or without motor, 220-volt, direct current.

Bank Fixtures.—First State Bank, Charles H. Tindall, president, Appleby, Tex., wants prices on bank fixtures.

Bathing Appliances.—Linden Natatorium Co., 400 Linden Ave., Memphis, Tenn., wants prices on bathing appliances.

Belting.—C. E. Bandisch Drain Tile Co., Box 319, Brownsville, Tex., wants belting.

Blowers.—See "Brick Machinery."

Blower, etc.—Texas Building Co., Fort Worth, Tex., wants blower equipment; also complete steam outfit.

Boiler.—John G. Duncan Company, 308 W. Jackson Ave., Knoxville, Tenn., wants prices on new or second-hand 50-horse-power locomotive boiler; immediate delivery; second-hand (guaranteed) preferred.

Boiler Fluids.—A. Stephen, 7 Swallow lane, Calcutta, India, wants prices and samples of boiler fluids.

Boilers.—See "Pumping Machinery, etc."

Brick Machinery.—Richlands Brick Corporation, Richlands, Va., wants prices on one three-quarter-housed bottom horizontal discharge blower for handling hot air; type used for waste heat from kilns; overhung wheel 7 feet diameter and water-cool bearings; with or without steam engine; also wants 200 steel dryer cars for stiff mud brick; second-hand equipment considered.

Bridge Abutments.—J. C. McClaugherty, road engineer of Monroe county, Union, W. Va., will award contract at 2 P. M. April 5 for building stone abutments for bridge over Brush Creek, near Cashmere, W. Va.; specifications on file at office of county road engineer at Union, at Cloverdale (W. Va.) postoffice and at Hale's store at Cashmere.

Bridge Construction.—John T. Campbell, 142 Bay St., St. Augustine, Fla., may be addressed relative to estimates wanted on contemplated concrete bridge across St. Sebastian River, to be built by city, county and St. Johns Light & Power Co. Railway.

Bridge Construction. — Jefferson County Board of Revenue, Birmingham, Ala., will receive bids until March 31 on following: 100-foot clear span steel bridge over Cahaba River, near Trussville; 67-foot clear span steel bridge over double branch near Jasper Ford; 80-foot clear span steel bridge with 85 feet of approach over Turkey Creek at Hirsches Mill; 55-foot clear span steel bridge over Sweat Branch on Jaybird Rd., near Rutledge's Springs; 54-foot clear span reinforced-concrete bridge at Trussville, Ala.; 54-foot clear span reinforced-concrete bridge at McCalla, Ala.; 54-foot clear span reinforced-concrete bridge at Rutledge's Springs, Ala.; 36-foot clear span reinforced-concrete bridge at Alton, Ala.; two 20-foot clear span reinforced-concrete bridges at Huffman; 20-foot clear span reinforced-concrete bridge near Bessemer; two 20-foot clear span reinforced-concrete bridges near Ensley; 10-foot clear span reinforced-concrete bridge near Ensley; $300 certified check to accompany each bid. For further information address J. W. Gwin, County Engineer, Room 103, Courthouse, Birmingham.

Bridge Construction.—Bids will be received until noon April 6 at office of Page County Clerk, Luray, Va., for construction of steel bridge 500 feet long across Shenandoah river; plans and specifications on file at office of State Highway Commission and of Clerk at Luray; certified check, $500; further information on application to P. St. J. Wilson, State Highway Commissioner, Richmond, Va.

Building Materials. — L. D. Robinson, Wadesboro, N. C., wants prices on hardwood floors and trimmings, mantel tiles and grates, screens, venetian blinds, porch columns, slate roof and plumbing, including work for two bathrooms.

Building Materials.—First Baptist Church, J. W. Sproles, chairman of committee, Greenwood, S. C., wants prices on maple floors, slate roof and ornamental iron work.

Building Materials, etc.—W. M. Hardwick, Dalton, Ga., wants prices on brick, tile roofing, hardwood flooring, beams, panels, oak doors, sash, etc.; also built-in china and door cases.

Building Materials.—Southern Structural Steel Co., San Antonio, Tex., wants prices on brick, sand, lime, cement, gravel or crushed stone, millwork, door frames and doors, window frames and sash and Barrett specification roofing.

Building Materials.—J. D. Anders, Essex Bldg., Norfolk, Va., will receive bids not later than April 7 on four-inch hollow terra-cotta partitions, fire clay chimney flue lining, vitreous hexagonal tiles, asbestolite floors, structural steel and iron work, plaster, paint, mill work, mantels, heating, electric wiring and fixtures, weather strip (Chamberlain preferred), plumbing, slate and metal roofing, ornamental terra-cotta, etc. These bids wanted in connection with different items needed for officers' and bachelors' quarters at United States Marine Barracks, Navy-yard, Norfolk.

Building Materials.—P. J. White & Son, 1110 Main St., Richmond, Va., wants prices on reinforcement, cement, roofing, tile and brick.

Cement.—W. E. Starnes, Granite Falls, N. C., wants prices on cement in car lots.

Cement Machinery.—N. A. Morelock, care Farmers' Tobacco Warehouse, Linestone, Tenn., wants cement machinery, including rock crushers and grinders, cement burners, etc.; wants addresses of manufacturers.

Clayworking Machinery.—Geo. C. Tidden, Moorefield, W. Va., wants information and prices on drain-tile machinery.

Clock and Bell System.—District Commissioners, District Bldg., Washington, D. C., want prices on clock and bell system for teachers' training school.

Condensing Equipments. — See "Electrical Machinery, etc."

Conduit.—Proposals are invited on furnishing for use of Electrical Commission, in accordance with specifications issued by chief engineer of said commission, following materials: 1,000,000 duct feet of vitrified-tile conduit; 200,000 feet of special duct pipe, including bends; each bid to be accompanied by certified check in following amounts; Vitrified-tile conduit, $500; special duct pipe and bends, $200; fair samples of vitrified-tile conduit and special duct pipe and bends to be submitted on or before date of opening bids, as required by specifications; proposals to be sealed and addressed to Board of Awards, care of J. Sewell Thomas, City Register, and must be received by City Register at his office, in City Hall, Baltimore, Md., before 11 A. M. April 12. For specifications and further information apply to Raleigh C. Thomas, chief engineer, City Hall.

Cooking Equipment.—District Commissioners, District Bldg., Washington, D. C., want prices on cooking ranges (including gas), soup kettles, coffee urns, etc., for $230,000 teachers' training school.

Cotton Duck.—F. Romeo Moffitt, Miami, Fla., wants names and addresses of manufacturers of seven-ounce cotton duck.

Cotton Batting Machinery.—Wm. Grey Maxwell, care of D. G. MacLean, Salinas, Cal., wants addresses of manufacturers of supplies, etc., for cotton batting manufacturing.

Cranes.—See "Electrical Machinery, etc."

Crushers.—Kimball Gold Mining Co., Otto G. Scupin, general manager, Dawsonville, Ga., wants prices on two second-hand "giants."

Crusher Plant.—W. V. Moore, West End, Va., wants second-hand jaw-crushing outfit, with screen and elevator; also second-hand 10-ton steam roller.

Crushers.—John G. Duncan Company, 308 W. Jackson Ave., Knoxville, Tenn., wants two "Giants," one 1½-inch and one 1¾-inch; new, or second-hand guaranteed; immediate delivery.

Culverts.—Board of Supervisors, Oktibbeha county, E. O. McIlwain, clerk, Starkville, Miss., will receive sealed bids for one car vitrified culverts and one car iron culverts; to be considered at April meeting.

Dam and Spillway.—Proposals will be received by city of Eastland, Tex., until 3 P. M. March 27 for constructing earth dam and spillway; approximate estimate of quantities: embankment in dam, 9800 cubic yards; excavation in spillway, 6300 cubic yards; excavation and back filling in muck ditch, 800 cubic yards; rip-rap, 500 cubic yards; slope wall masonry, 50 cubic yards. Specifications and bidding blanks may be obtained by addressing Charles Pettit, Jr., City Secretary, Eastland; engineer, John Mead, Fort Worth, Tex.

Derrick.—W. H. Spooner, Tifton, Ga., wants prices on derricks.

Dredging.—Drainage Commissioners, Statesville, N. C., will receive bids until April 15 for dredging Third Creek Drainage District; ditch 14.7 miles long, requiring, by estimate of drainage engineers, excavation of 437,240 cubic yards of earth. For particulars write P. P. Dulin, L. O. White and M. C. Williams, members of Commission.

Electrical Machinery, etc.—City of Troy, Ala., will receive proposals addressed to A. B. Campbell, superintendent electric and water departments, to be submitted to Council April 17, on stationary steam engine, 400 horse-power, 150 pounds initial pressure; electric generator, 250 K. V. A., 60 cycles, three-phase, 2300 volts; pump, capacity not less than 500 gallons per minute against 200 pounds working pressure; motor to drive above pump, 60 cycles, three-phase; transmission-line material for three-phase line 3½ miles long; size of wire, No. 4, B. & S.

Electrical Machinery, etc.—Miter gate-moving machines, miter forcing machines and electric motors for lock gates. Sealed proposals will be received at office of General Purchasing Officer, F. C. Boggs, Captain, Corps of Engineers, U. S. A., Isthmian Canal Commission, Washington, D. C., until 10.30 A. M. May 27, at which time they will be opened in public, for furnishing above-mentioned articles. Blanks and general information relating to circular (No. 627) may be obtained from this office or offices of assistant purchasing agents at 24 State St., New York; 614 Whitney-Central Bldg., New Orleans, and 1086 North Point St., San Francisco; also from U. S. Engineer Offices in Seattle, Los Angeles, Baltimore, Philadelphia, Pittsburg, Boston, Buffalo, Cleveland, Cincinnati, Chicago, St. Louis, Detroit, Milwaukee, St. Paul, Chattanooga, Louisville, Mobile, Galveston; also at Commercial Club, Kansas City; Chamber of Commerce, Quincy, Ill., and Chamber of Commerce and Board of Trade, Tacoma.

Electrical Machinery.—Bids will be received by Clerk of Jackson County Court, Kansas City, Mo., until noon March 31 for manufacture and furnishing to Jackson county and erecting at county courthouse, Kansas City, following machinery: Automatic cut-off steam engine, for direct connection to 200-kilowatt direct-current 220-volt generator; generator of 200 kilowatts, 220 volts, direct-current direct connected engine; necessary foundations will be furnished by Jackson county; all in accordance with specifications filed with each proposal; each bid to be accompanied by certified check for 5 per cent. of bid, payable to Leo M. Gilday, county clerk; bidder to state time in which machinery will be furnished; weight of all machinery and time in which delivery can be made; contractor to guarantee machinery for one year after being installed; bidder to submit with proposal, specifications, drawings or cuts, showing general and working parts of machine he proposes to furnish.

Electrical Machinery, etc.—Board of Trustees for Water-works and Improvement Bonds, W. M. Bostwick, Jr., chairman of trustees, Jacksonville, Fla., will receive bids until April 4 for extensive construction and machinery, briefly as follows: Dredging; creosoting; piling; 30-ton traveling crane; four 500-horse-power boilers; two surface condensing equipments with pumps, etc.; eight super-heaters for boilers above mentioned; feed-water heater for hourly capacity of 180,000 pounds water; two plunger boiler-feed pumps; two 1500-kilowatt turbo-generators; rewinding, re-erection, etc., of two 1500-kilowatt turbo-generators, etc. Will open bids April 18, briefly as follows: Six 1000-kilowatt 6600-2200-volt transformers, etc.; excavations, foundations, construction, etc., on power station; 200-foot chimney of radial brick or concrete, etc.; structural steel work for power station; removal and re-erection of two condensing equipments, etc. Plans, specifications, forms of contract, etc., on file with engineer in charge, Scofield Engineering Co. of Philadelphia, Pa.

Electrical Machinery.—Mayor and Aldermen, Jackson, Tenn., will receive bids until 12 noon April 4 for 250-horse-power engine, two arc generators of 150 lights capacity each, switchboard and 155 arc lights; specifications obtainable from T. H. Hartmus, secretary.

Electric Wiring.—Mississippi Building & Investment Co., J. Weinberg, president, Greenville, Miss., wants prices on electrical wiring (conduit system).

Elevator.—Mississippi Building & Investment Co., J. Weinberg, president, Greenville, Miss., wants prices on electric passenger elevator.

Elevators.—A. Stephen, 7 Swallow Lane, Calcutta, India, wants prices on small electric lift, new or second-hand, to carry about three persons.

Engine.—Pedigo & Garry, Bluefield, W. Va., want prices on engine to operate pump and dynamo for lighting.

Engine.—John G. Duncan Company, 308 W. Jackson Ave., Knoxville, Tenn., wants prices on 40-horse-power center-crank stationary engine; immediate delivery; second-hand (guaranteed) preferred.

Engine. — Hobbs-Newby Equipment Co., Seaboard Bank Bldg., Norfolk, Va., wants prices on second-hand Corliss steam engine, 600 to 800 horse-power; send full description and lowest cash price with location for inspection in first letter.

Engine.—See "Electrical Machinery, etc."

Fence.—War Department, Office of Commissioner for Marking Graves, James H. Berry, Commissioner, 410 Lemon Bldg., Washington, D. C. Sealed proposals in duplicate will be received until 11.30 A. M. April 21, and then opened, for furnishing and erecting 234 linear feet of wrought-iron fence around Point Lookout Confederate Cemetery, near postoffice of Cornfield Harbor, St. Mary's county, Maryland; send for specifications.

Fire Brick.—W. C. Shaw Construction Co., Lawton, Okla., wants prices on 5000 fire brick.

Fire Clay.—W. C. Shaw Construction Co., Lawton, Okla., wants prices on half ton of fire clay.

Foil Leaf.—J. T. Meere, 614 E. Main St., Chattanooga, Tenn., wants foil leaf such as used on button cards.

Foundry Supplies. — Oklahoma Stove & Range Co., C. D. McDaniel, manager, Muskogee, Okla., will need foundry supplies.

Galvanized Iron.—See "Culverts."

Galvanized Iron.—W. C. Shaw Construction Co., Lawton, Okla., wants prices on galvanized corrugated iron.

Gas Water Heaters and Gas Ranges.—Sealed proposals will be received at office of treasurer Southern Branch N. H. D. V. S., National Soldiers' Home, Virginia, until 1.30 P. M. April 18, and then opened, for labor and material, in accordance with instructions and specifications, copies of which, with blank proposals, can be had upon application to treasurer, John T. Hume, for furnishing and installing gas water heaters and gas ranges in quarters, and also for gas supply piping.

Gasoline.—See "Naphtha, etc."

Gasoline Engine.—First State Bank, Chas. H. Tindall, president, Appleby, Tex., wants prices on four or six horse-power gasoline engine.

Ginning Machinery.—W. W. Perry, R. F. D. No. 3 from Cuero, Tex., will want prices on ginning machinery operated by steam.

Glass Jar Machinery, etc.—L. D. Farnsworth, 1725 Wilson Ave., Chicago, Ill., wants addresses of manufacturers of machinery for making glass bottles and fruit jars.

Grading. — Russell County Commissioners' Court, Seale, Ala., will receive bids until April 3 for grading road from Seale to Columbus, Ga., 15¼ miles; profile and specifications on file in office of H. T. Benton, Judge of Probate.

Gravel-washing Plant.—Southern Sand & Gravel Co., Box 84, Fredericksburg, Va., wants plant for excavating, washing and screening gravel at Massaponax, Va.; equipment to include wheeled scrapers, drag scrapers, railroad plow, 500-foot belt conveyor with 50-foot lift and hourly capacity of 50 cubic yards, or similar equipment for 700 feet or for 800 feet; belt-driven centrifugal pump with capacity of 450 gallons per minute, direct connected to 30-horse-power electrical motor; washing screens, jaw crusher with hourly capacity of 2 cubic yards; 125-horse-power boiler; 90 to 100-horse-power engine, etc. Address company for complete specifications. (Lately mentioned.)

Glove Machinery.—E. W. Calfee, Pulaski, Va., wants information and prices on machinery and mterials to manufacture canvas gloves.

Hardware Specialties.—Arthur Hogg, 50 Front St. E., Toronto, Canada, wants to correspond with manufacturers of hardware specialties relative to representing them for Canadian trade.

Heating.—Fire and Water Board will receive bids until April 4 for heating and plumbing of fire stations according to plans on file with Edwards & Sunderland, architects, Kansas, City.

Heating Plant.—C. H. Cohen & Son, Stuarts Draft, Va., wants prices on hot-air furnace for 8 or 10-room dwelling.

Heating Plant. — District Commissioners, District Bldg., Washington, D. C., want prices on plenum system of heating for $230,000 teachers' training school; want fan to furnish 90,000 cubic feet of air per minute, multivane type, two boilers and engine for fan, tempering and heating coils and thermostatic heat regulations.

Heating Plant.—Mississippi Building & Investment Co., J. Weinberg, president, Greenville, Miss., wants prices on steam or hot-water heating plant.

Heating Plant.—S. Arthur White, Mebane N. C., wants information and prices on heating plant.

Heating Plant.—S. B. Ethridge, 3827 Ave. D, Birmingham, Ala., wants prices on steam or hot-water heating plant suitable for heating with gas.

Heating Plant.—Dr. J. E. Leach, Gadsden, Ala., wants prices on hot-water heating plant.

Hoisting Engine.—W. H. Spooner, Tifton, Ga., wants prices on hoisting engine.

Hydrants.—City Water Co., Eli Harned, manager, Dawson Springs, Ky., will require about 12 to 15 hydrants.

Inks.—A. Stephen, 1 Swallow Lane, Calcutta, India, wants information, samples and prices on inks.

Jetty Construction.—U. S. Engineer Office, Room 309, Custom-house, Baltimore, Md. Sealed proposals for jetty construction at Claiborne Harbor, Md., will be received at this office until 12 noon April 24, and then publicly opened; information on application; Thos. L. Casey, Col. Engineers.

Jute.—W. C. Shaw Construction Co., Lawton, Okla., wants prices on 900 pounds jute.

Laboratory Equipment.—District Commissioners, District Bldg., Washington, D. C., want prices on laboratory equipment, including electric exhaust fans for laboratory and motors for demonstration purposes.

Lead.—W. C. Shaw Construction Co., Lawton, Okla., wants prices on 20,000 pounds lead.

Levee Construction.—Directors White River Levee District, W. T. Trice, president, Cotton Plant, Ark., will receive bids until 10 A. M. April 24 for construction of levee con-

taining about 60,000 cubic yards across Jackson's Bayou, in Prairie county.

Lock Gates Machinery.—See "Electrical Machinery, etc."

Locomotives.—Atlantic Coast Line Railroad Co., J. R. Kenley, third vice-president, Wilmington, N. C., will purchase 25 locomotives.

Lumber.—J. W. Corkran, Salisbury, Md., wants to correspond with managers of lumber mills, relative to handling output of mountain oak.

Mattress Machinery and Supplies.—Wm. Grey Maxwell, care of D. G. MacLean, Salinas, Cal., wants addresses of manufacturers of supplies, etc., for mattress making.

Machine Tools.—John F. Riley Foundry & Machine Works, Charleston, S. C., wants 18 inch by 8 foot engine lathe; 24 inch by 10 foot engine lathe; 48 inch by 20 foot engine lathe; planer, 36 inch by 8 foot bed; 36-inch drill press; emery grinder; new or second-hand.

Manufacturers.—C. Cusicanqui M., of La Paz, Bolivia, wants catalogues and prices from manufacturers who want to extend their trade in Bolivia; up to April 10, address him at Room 1623, No. 25 Broad St., New York.

Metal Ceiling.—J. P. Robinson & Bros., Roanoke Rapids, N. C., want prices on metal ceiling.

Metal.—U. S. Engineer office, Vicksburg, Miss. Sealed proposals for furnishing about 307,000 pounds of structural metal for use at locks and dams Nos. 4 and 8, Ouachita River, Arkansas and Louisiana, will be received until noon April 14; information on application; Clarke S. Smith, Captain, Engineers.

Metal-working Plants.—W. G. McKean, De Queen, Ark., wants to correspond relative to placing order for manufacture of from 1000 to 10,000 portable canning machines of sheet metal, etc.

Metal Lockers.—Lee Griffin, Monroe, N. C., wants prices on metal lockers for Knights Templar uniforms.

Mining Equipment.—See "Piping, etc." See "Crushers."

Mining Machinery.—Peninsular Mining Co., A. E. Robinson, president, Wauchula, Fla., wants prices on hydraulic machinery (operated by electricity or steam) for mining kaolin; daily capacity 50 tons; machinery to be delivered at mine, ¾ mile from depot at Winston, Fla., 4½ miles from Lakeland, Fla.

Mining Machinery.—Kelleys Creek Colliery Co., main offices at Charleston, W. Va., H. T. Lisnorr, engineer in charge, Ward, W. Va., will open bids in June for mining machinery; daily output to be 1800 tons coal.

Naphtha, etc.—Marques & Castillon, 186 Entre Rios, Buenos Aires, Argentina, want information and prices on naphtha, gasoline and petroleum.

Organ.—First Presbyterian Church, Rev. R. P. Walker, pastor, Hillsboro, Tex., wants prices on pipe organ.

Paper-box Machinery.—C. Fred Hunt, 9125 Jefferson St., Springfield, Mo., wants complete equipment for small paper-box factory. Give description and price.

Pattern-shop Equipment.—See "Woodworking Machinery."

Paving, etc.—City Commissioners, Galveston, Tex., will receive bids until noon April 6 for furnishing material, labor, tools and appliances required to take up, grade street and relay 110 square yards of vitrified brick pavement along Avenue D, between 25th and 29th Sts., as may be directed by City Engineer, and in accordance with specifications therefor prepared, which will be furnished upon application to City Engineer's office; proposals to be submitted in duplicate and accompanied by certified check in the sum of 5 per cent. of bid; bids to be submitted at unit price per square yard for reconstruction of pavement, which bid must include cost of taking up pavement, cleaning brick, grading street and relaying and grouting pavement, as provided in specifications; contractor required to furnish all new paving brick necessary to complete repairs, for which new brick he will be paid the amount of his bid per thousand brick, delivered along line of work; payment will be made upon completion of entire work and its acceptance by City Engineer; V. E. Austin, Commissioner of Streets and Public Property; A. T. Dickey, City Engineer; John D. Kelley, City Secretary.

Paving.—Bids will be received by City Council, Gadsden, Ala., until 8 P. M. April 3 at Council chamber of city hall, for construction of following sidewalk work: 2531 square yards cement sidewalk; 191 square yards driveways; 2074 linear feet of 4x20-inch granite curbing or 2074 linear feet of 5x20-inch granite curbing, or 2074 linear feet of 4x8-inch granite curbing; 300 cubic yards excavations; 4 catch-basins; plans, profiles and specifications on file in office of Charles L. Marsh, City Engineer, City Hall.

Paving.—Town of Windsor, Va., will receive bids until April 3 for laying about 400 yards concrete sidewalk; bids to be made per square yard and include cost of material; C. L. Griffin, Clerk.

Paving.—L. Elgutter, Clerk, Newellton, La., will receive bids until April 6 for laying 1900 feet of brick sidewalk, 4 and 5 feet wide; will receive bids for material and work or separate.

Paving, etc.—Bob Parman, City Clerk, Oklahoma City, Okla., will receive bids until 5 P. M. April 10, and will be considered by Mayor and Council in Council Chamber, City Hall, at 10 A. M. April 11 for removing retaining wall back to property line, do excavation and construct sidewalk full width in front of lots 21 and 22, Block 19, Original Plat of Oklahoma City; certified check, $20.

Paving.—Sealed proposals will be received until 12 noon April 11 by City Council of Columbia, S. C., for constructing six or more blocks of pavement; each block to contain 3150 square yards of paving and 884 linear feet of steel-bound concrete sidewalks and vitrified-pipe drains; bids to be received for paving with creosoted-wood paving blocks, bitulithic or bituminous concrete pavement and vitrified block on five-inch concrete foundation; samples of vitrified block and wood block properly labeled must be submitted before April 10; each tender must be accompanied by certified check, payable to Treasurer of city, to amount of $500; specifications, etc., furnished on application to this office; usual rights reserved; John McNeal, City Engineer; R. C. Keenan, Council superintendent of streets.

Paving.—Separate sealed proposals, addressed to Board of Awards, care of City Register, Baltimore, Md., will be received by City Register at his office, City Hall, until 11 A. M. April 5 to grade, curb and pave following streets and alleys with vitrified blocks: North side of O'Donnell St., from Kenwood Ave. to Ellwood Ave.; Luzerne St., from Federal St. to outline of property of Baltimore Cemtery Co.; Courtland St., from Hamilton to Center St.; Hargrove Al., from Hamilton St. to Center St.; with granite blocks, Fremont Ave., from Baltimore to Pratt St.; Barre St., from Light to Charles St.; Lombard St., from Hopkins Pl. to Hanover St.; with sheet asphalt, asphalt blocks, vitrified blocks or bitulithic, Edmondson Ave., from P., B. & W. Ry., to Fulton Ave.; Fulton Ave., from Wilkens to Frederick Ave.; Mulberry St., from Payson to Pulaski St.; Carrollton Ave., from Lanvale St. to Harlem Ave.; Oliver St., from Caroline St. to Broadway; High St., from Fayette to Lexington St.; Aisquith St., from Ashland Ave. to Chase St.; Hollins St., from Garrison Ave. to Catherine St. Specifications and proposal sheets will be furnished upon application to office of B. T. Fendall, City Engineer.

Paving.—Sealed proposals will be received at office of G. J. Hubbard, Acting City Clerk, Troy, Ala., until April 3 at 7.30 P. M., and then opened, for construction of concrete pavement on sidewalks on North Three Notch and College Sts.; approximately 2000 square yards; certified check for $500; plans and specifications may be seen at office of City Clerk; rights reserved.

Paving, etc.—Baltimore County Highways Commission, Towson, Md., will receive bids until noon April 6 for paving Highland Ave. and Gough St., Highlandtown, Md., with vitrified brick, and for constructing sewer from Baltimore and 3d Sts. to Fayette St., Highlandtown, Md., as per plans; proposal marked Nos. 1, 2, to be submitted with each piece of work and be accompanied by certified check for $100; plans and specifications on file in office of Highways Commission, Towson; blank proposals can be secured; Henry G. Shirley, Baltimore County Roads Engineer.

Paving, etc.—Bids addressed to D. F. Appenzeller, chairman Local Board of Seventh Ward, Portsmouth, Va., will be received until 8 P. M. March 31 at office of Bascom Sykes, engineer, 510 Middle St., Portsmouth. Bids are to be submitted as follows: For furnishing tools, labor, etc., in excavating and removing earth, etc., to designated points, and grading South St. from Chestnut St. to Rice's Branch; for furnishing tools, labor, material, etc., in paving with vitrified brick, on sand foundation, roadway of South St. (same distance), and for furnishing and setting five-inch granite curb on both sides of roadway; for furnishing tools, labor, materials, etc., in excavating and paving with tarvia filled with macadam 16-foot-wide driveway down center of South-street Rd. from Rice's Branch westerly to city limits; specifications and other information can be obtained at 701 Crawford St., Portsmouth; each bid to be accompanied by certified check in sum of 5 per cent. of amount of bid, payable to H. L. Hudgins, City Treasurer.

Paving.—Charles E. Bolling, City Engineer, Richmond, Va., will receive bids until 4 P. M. March 28 for certain granolithic curbs and gutter, and granite curbing and granite spall gutters as per list on file in office of Charles E. Bolling, City Engineer, where blank forms of proposals and specifications can be had; certified check for $250 to accompany each bid; will also receive bids until same date for laying certain granolithic sidewalks and grading and paving certain alleys; full information furnished on application at office of City Engineer; certified check for $250 to accompany each bid.

Paving.—City of Fayetteville, N. C., will receive sealed bids April 3 for $35,000 worth of light-traffic pavement. Address C. B. Ledbetter, chairman of street committee, or H. J. McBule, City Clerk.

Petroleum.—See "Naphtha, etc."

Pile-driving.—J. E. Porter & Co., Weldon, N. C., will consider subletting pile-driving; about 4000 piles from 35 to 50 feet long.

Pine Products.—See "Turpentine Manufacture, etc."

Pipe, etc.—City Water Co., Eli Harned, manager, Dawson Springs, Ky., will require about 8000 feet of 4 inch to 12 inch cast-iron pipe and fittings.

Pipe.—I. R. Lamport, Mapleton, Kans., wants prices on four miles of four-inch pipe for Claremore Buff Brick Co., Box 147, Claremore, Okla.

Pipe Fittings, etc.—Office of Quartermaster, Fort Sam Houston, Tex. Sealed proposals in duplicate, subject to usual conditions, will be received until April 3 for furnishing 13 wash-basins, lavatory No. 20; 13 sacks Portland cement, 312 galvanized-iron elbows, 13 brass ferrules, 2140 feet galvanized-iron water pipe, 650 feet cast-iron soil pipe, 520 feet sewer pipe, four-inch; 13 barrels sand, 26 compression stops, 312 galvanized-iron tees and 78 box unions; Fred H. Gallup, Captain and Quartermaster.

Pipe.—Straight Creek Coal Mining Co., Cary, Ky., wants prices on cast-iron pipe, 10 to 24 inches diameter.

Piping, etc.—Kimball Gold Mining Co., Otto G. Scupin, general manager, Dawsonville, Ga., wants quotations on 2500 feet second-hand serviceable iron piping for hydraulic work; 800 feet of 14 inch, 600 of 12 inch, 600 of 10 inch and 500 of 8 inch; spiral riveted with sleeve or crimp joint, including three reducers from 14 to 12, from 12 to 10 and from 10 to 8 inches.

Pen Points.—A. Stephen, 7 Swallow Lane, Calcutta, India, wants information, samples and prices on nibs (pen points).

Pencils.—A. Stephen, 7 Swallow Lane, Calcutta, India, wants information, samples and prices on pencils.

Plumbing.—See "Heating."

Plumbing.—S. Arthur White, Mebane, N. C., wants prices on plumbing, including bath-room fixtures.

Plumbing.—Mississippi Building & Investment Co., J. Weinberg, president, Greenville, Miss., wants prices on plumbing for four-story office building; lavatory in each room; nine toilets.

Plumbing.—C. H. Cohen & Son, Stuarts Draft, Va., wants prices on plumbing and bath fixtures for 8 or 10-room dwelling.

Portable Houses.—O. W. Slane Glass Co., Statesville, N. C., wants addresses of manufacturers of portable houses for garages and seashore cottages.

Postoffice Equipment.—W. E. Starnes, Granite Falls, N. C., wants prices on post-office equipment.

Pump.—First State Bank, Charles H. Tindall, president, Appleby, Tex., wants prices on light centrifugal pump.

Pump.—John M. Walsh, manager, Modern Woodmen of the World Bldg., 358 Dearborn St., Chicago, Ill., wants deep-well pump.

Pump.—Athens Table & Manufacturing Co., Athens, Tenn., wants underwriters' fire pump of 500 to 1000 gallons per minute capacity; second-hand.

Pump.—John G. Duncan Company, 308 W. Jackson Ave., Knoxville, Tenn., wants steam pump, six-inch suction, five-inch discharge; new, or second-hand guaranteed; immediate delivery.

Pump.—See "Electrical Machinery, etc."

Pumping Equipment.—See "Electrical Machinery, etc."

Rails.—I. R. Lamport, Mapleton, Kans., wants prices on two-mile railroad switch, second-hand steel, for Claremore Buff Brick Co., Box 147, Claremore, Okla.

Rails.—Empire Manufacturing Co., Goldsboro, N. C., wants one mile 35 or 40-pound relay rail complete with bolts and straps.

Rails.—Bryant Lumber Co., Wilson, N. C., wants three or four miles 16 or 20-pound relaying rail.

Reinforcing.—See "Building Materials."

Reinforcing Steel.—W. C. Shaw Construction Co., Lawton, Okla., wants prices on 1000 pounds ½ inch reinforcing steel, 30 or 40 feet long.

Road Construction.—J. C. McClaugherty, Engineer of Monroe County, Union, W. Va., will award contracts in April for road construction in Red Sulphur, Springfield, Union, Sweet Springs, Second Creek and Wolf Creek districts; specifications on file at office of County Road Engineer.

Road Construction.—John B. Ashe, County Auditor, Houston, Tex., will receive bids until noon April 11 for paving Washington St. from old city limits to Houston Heights Boulevard with brick, Battle Ground Rd. from Deer Park to Lynchburg Ferry with (1) shell and (2) gravel and shell, and four and a half miles on Cedar Bayou, Crosby and Houston Rd. with shell; plans and specifications on file with Howe & Wise, County Engineers.

Road Resurfacing.—Duval County Commissioners, Jacksonville, Fla., will receive bids until 10 A. M. April 28 for resurfacing St. Johns Ave. from city limits to McGirts Creek Bridge, about 27,000 square yards, with asphalt macadam; specifications and other data can be had on application to Gail L. Barnard, County Engineer, Room 9 Courthouse, Jacksonville.

Road Roller.—W. V. Moore, West End, Va., wants second-hand 10-ton steam roller.

Rubber Tires.—A. Stephen, 7, Swallow Lane, Calcutta, India, wants samples and prices of rubber carriage tires.

Road Machinery.—Solomon-Norcross Company, Atlanta, Ga. (as engineers for counties on road work), wants prices on road-building equipment, including drag scrapes, wheelers, wagons, rollers, etc.

Road Work.—Proposals in duplicate on forms attached to specifications will be received by John M. Murch, Galveston County Auditor, Galveston, Tex., until 11 A. M. April 3 for grading and shelling with mud or clamshell county roads in and from Port Bolivar, approximate length of six miles (also constructing culverts and bulkheading on said roads), in accordance with plans and specifications on file in office of County Auditor, from whom copies can be had on application; estimated quantities of material and work are as follows: Grading and ditching 6 miles of road; sand filling, 5000 cubic yards; mud or clamshell, 10,600 cubic yards; creosoted lumber, 72,000 feet B. M.; heart lumber, 2300 feet B. M.; plain concrete, 50 cubic yards; reinforced concrete, 30 cubic yards; certified check for $1000 to accompany each bid; John M. Murch, County Auditor.

Roofing.—J. W. Barden, Bessemer, Ala., wants prices on roofing.

Safe, etc.—Farmers' Bank of Hobbsville, Hobbsville, N. C., wants prices on safe, vault and bank fixtures. Address E. A. Rountree.

Safe, Vault, etc.—State Bank of Northfork, Northfork, W. Va., wants prices on safe, vault and other bank fixtures.

Safe, Vault, etc.—Bank of Warwood, W. Va., wants prices on safe, vault and other bank fixtures.

Sanding Machine.—Texas Building Co., Fort Worth, Tex., wants double-drum sanding machine.

Saw.—John G. Duncan Company, 308 W. Jackson Ave., Knoxville, Tenn., wants 56-inch inserted-tooth saw; new, or second-hand guaranteed; immediate delivery.

Sawmill.—John G. Duncan Company, 308 W. Jackson Ave., Knoxville, Tenn., wants second-hand sawmill; guaranteed; immediate delivery.

Seating.—First Presbyterian Church, Rev. R. P. Walker, pastor, Hillsboro, Tex., will receive bids at once for seating for $17,000 church edifice.

Seating.—J. P. Robinson & Bros., Roanoke Rapids, N. C., want prices on chairs for theaters.

Seating.—Rev. W. H. Major, Covington, Tenn., wants prices on 450 pews and 150 chairs.

Septic Tank.—J. A. Nelson, Round Rock Sewerage Co., Round Rock, Tex., wants information relative to septic tank for small sewerage plant.

Sewer Construction.—Sealed bids will be received by Sewerage Commission, J. B. Johnson, chairman, Rock Hill, S. C., until 4 P.

M. April 25, and then opened, for construction of sanitary sewer system comprising approximately 16 miles of 6, 8, 10 and 12-inch sewers, 215 manholes, 35 flush tanks, etc.; (disposal plants bids to be received later); plans and specifications may be seen at office of commission, or secured from Thos. W. Cothran, engineer, 119 Hampton Rd., Rock Hill, on payment of $10; bids must be made out on blanks furnished by engineer, and be accompanied by certified check for at least 5 per cent. of amount; rights reserved. Address engineer.

Sewer Construction.—See "Paving, etc."

Sewer Construction.—Sealed proposals will be received at rooms of Sewer Commission, Easton, Md., until 12 noon April 15 for furnishing all material and doing all work for construction of about six miles of pipe sewers from 8 to 15 inches in diameter, with Y branches, manholes, flush tanks and other necessary appurtenances; also two disposal plants, including necessary piping, grading, etc.; plans and specifications and forms of proposal obtained at office of Mayor, or at office of Clyde Potts, 30 Church St., New York; full set of blueprints will be forwarded to any applicant (express prepaid) upon receipt of $5; each bid to be accompanied by certified check for $3000; usual rights reserved; Martin M. Higgins, president Sewer Commission.

Sewer Construction.—C. W. O'Leary, City Clerk, Meridian, Miss., will receive bids until 7.30 P. M. April 7 for furnishing labor and materials necessary for construction of concrete storm sewer on Twenty-sixth Ave., between D and A Sts., and on A St., between Twenty-sixth and Rubush Aves., as shown on plans on file in office of W. G. Wetmore, City Engineer; certified check, $400.

Sewage Screens.—Baltimore (Md.) Board of Awards will receive bids at office of J. Sewell Thomas, City Register, City Hall, until 11 A. M. April 19 for furnishing and installing sewage screens for sewage-disposal works as shown on plans on file in office of Calvin W. Hendrick, chief engineer of Sewerage Commission; specifications and plans can be obtained upon application at office of Sewerage Commission, 904 American Bldg.; charge of $5 for each specification and blueprints; certified check for $1000 to accompany each bid; Charles England, chairman Sewerage Commission

Sewing Machines.—See "Overall Machinery."

Screens.—See "Crusher Plant."

Spools and Bobbins.—Jos. L. Pearson & Son, Route No. 2, Keysville, Va., wants to correspond with manufacturers of spools and bobbins.

Steam Shovel.—Propst Contracting Co., Charlotte, N. C., wants prices on revolving traction shovel, with one-yard dipper; good condition.

Syrup-mill Machinery, etc.—Dezell Enterprise Co., Greensboro, Fla., wants information and prices on power cane mill, daily capacity 20 barrels; copper-pipe coils; glass or tin containers, capacity one quart each; labels and booklets. (Capacity recently incorrectly noted.)

Stationery.—Metropolitan Realty & Investment Co., G. A. Sheehy, secretary, Ocala, Fla., wants prices on all kinds of bank stationery; samples furnished.

Steam Equipment.—See "Blower, etc."

Steel Castings, etc.—Canal circular 626-B, Isthmian Canal Commission, Purchasing Department, Washington, D. C. Sealed proposals will be received under circular 626-B until April 3 for furnishing steel castings, lock washers, ferrules, bridge reamers, tacks, locks, packing, chamois and plate glass; F. C. Boggs, Captain, Corps of Engineers, U. S. A., general purchasing officer.

Structural Steel.—See "Electrical Machinery, etc."

Tank.—Tar River Lumber Co., Rocky Mount, N. C., wants second-hand tank for 14-ton locomotive; to be used on separate tender.

Telephone Equipment.—Copper Creek Telephone Co., H. K. McConnell, president, Wayland, Va., wants prices on wire, brackets, insulators, telephones (bridging) and telephone material in general.

Telephone System.—District Commissioners, District Bldg., Washington, D. C., want prices on telephone extension system for $230,000 teachers' training school.

Time Clock.—Vidalia Coffin & Casket Co., Vidalia, Ga., wants time-record clock, to register 30 men.

Theater Equipment.—J. P. Robinson & Bros., Roanoke Rapids, N. C., want prices on scenery for stage.

Turpentine Manufacture, etc.—Maxwell Farm & Development Co., 205 Hogan St., Jacksonville, Fla., wants information and prices on machinery for manufacturing turpentine and other pine products from dead timber and stumps.

Vitrified Brick.—See "Culverts."

Water System.—B. A. Tyler, Dalton, Ga., wants prices on pneumatic water system for dwelling.

Water-works Supplies.—Mayor and Board of Commissioners, Tulsa, Okla., will receive bids at office of E. B. Cline, City Auditor, until 9.30 A. M. March 30 for furnishing following material for enlargement of water-works: Two 72-inch by 18-foot horizontal tube boilers; one high-duty Cross compound Corliss condensing pumping engine; 750 tons cast-iron water pipe and 27 tons of specials; bids to be received separately on each item, and certified check for not less than 5 per cent. of bid to accompany each proposal; bids to be made on forms furnished by city; plans and specifications may be seen at office of Superintendent of Water Works.

Wire and Wire-weaving Machinery.—W. A. Edwards, Camden, S. C., wants information and prices on machinery to weave light wire of special construction. Send cuts. Also wants prices on wire.

Well Drilling.—Pascagoula Development Co., Pascagoula, Miss., wants proposals on 2500 and 3000-foot wells at Laine, five miles from Pascagoula; 500 feet of 10-inch casing, 1000 feet 8-inch; next 500 feet to be 6-inch, finishing with 4-inch casing; rotary drills only can be used, formation being sand and clay.

Watchman's Clock.—J. G. Etheridge, South Mills, N. C., wants watchman's clock.

Woodworking Machinery.—John F. Riley Foundry and Machine Works, Charleston, S. C., wants 36-inch band saw, 18-inch jointer; 24-inch turning lathe, double head; trimmer, circular saw and table for pattern shop; all new or second-hand.

Woodworking Machinery.—C. W. Brown, Frostproof, Fla., wants second-hand planer and matcher, and gang edger.

Woodworking Machinery.—Jos. L. Pearson & Son, Route No. 2, Keysville, Va., wants prices on machinery to manufacture spools, bobbins, etc.

Woodworking Machinery.—J. G. Etheridge, South Mills, N. C., wants small-sized veneer machine; also circular resaw.

Woodworking Machinery.—L. E. Martin, care of Caroline County Bank, Bowling Green, Va., wants to correspond with dealers in new or second-hand machinery for cutting tops and bottoms of peach baskets; also veneer-mill machinery.

INDUSTRIAL NEWS OF INTEREST

Wants Hardwood Timber Land.

A large tract of hardwood timber land, principally oak, accessible to transportation, is wanted by S. Shaffer of Pineville, Ky.

Seeks Capital for Mining.

Capital to develop a gold-mining proposition is needed by L. Sherard of Evergreen, Ala. He states that he is a practical miner and that his enterprise offers profitable returns.

Trucking Land Wanted.

A tract of 1000 to 5000 acres of good trucking land in Florida, either stumpage or original forest, that will produce well after clearing, is wanted by J. Tracy Walker of McComas, W. Va.

Birmingham Plating Co.

The Birmingham (Ala.) Plating Co. has established a plant at 217 N. 40th St., where it is prepared to do all kinds of plating for stove foundries and kindred lines. As the trade demands the company expects to increase capacity.

Chair and Lumber Plant Offered.

The lands, buildings, machinery, etc., of the Cahill Chair & Lumber Co. at Madison, N. C., will be offered at public sale on April 11. This plant includes boiler, engine, chair machinery, finished and unfinished product, etc. For particulars, address Francis B. Kemp, trustee.

Contracts for 9,000,000 Bricks.

The Greenville (S. C.) Brick Manufacturing Co., has received contract to furnish 5,000,000 bricks for use in constructing the Duncan Mills, a $1,000,000 cotton factory being established at Greenville. The Greenville company received contract recently to supply 4,000,000 bricks for erecting the Westervelt Mills, another $1,000,000 cotton factory being established at Greenville.

To Establish Distributing Agency.

The Manufacturers Record is advised by M. R. Hatcher, 630 Webster Ave., Portsmouth, Va., that he is planning to establish at Norfolk a distributing agency for manufacturers. Mr. Hatcher is now prepared to correspond with manufacturers who may be prepared to make arrangements for representation and distribution of their products in the territory tributary to Norfolk.

For Sheet Metal Workers.

C. A. Ellis, Lexington avenue, Ft. Smith, Ark., states he has a money-making proposition for some sheet-metal plant with press capacity. He invites investigation.

Experiences With Leadite.

The Leadite Co., Land Title Building, Philadelphia, requests that the statement in the industrial news item under the heading "Experiences with Leadite" in issue of March 23, 1911, "12 miles of mains are laid with it under pressure of 175 pounds per square inch," should be modified to read "laid with it under pressures *up to* 175 pounds per square inch."

Friction Engineers and Pile Foremen

J. E. Porter & Co., railroad contractors, Weldon, N. C., want two experienced friction engineers and two experienced pile foremen. The men must be thoroughly familiar with the erection of pile drivers and the driving of piles on railroad construction. Applicants are advised to state experience, reference and salary expected. If proper agreements can be made with thoroughly reliable contractors, the firm would sublet pile driving, which will amount to about 4000 piles, varying in length from 35 to 50 feet.

The DeLoach Plant.

Messrs. Scarbrough and Crymes have purchased the DeLoach Mill Manufacturing Co. plant at Bridgeport, Ala. They will continue the enterprise under that company title as established in 1880, and officers have been elected as follows: President, W. C. Scarbrough; vice-president and sales manager, C. W. Crymes; secretary-treasurer, W. D. Scarbrough. This company manufactures high-grade mill machinery, and its present output is about $15,000 worth of sawmills and machinery per month. It hopes to make the plant the largest of its kind in the South. Besides the main office and works at Bridgeport, the company has an export department in New York and distributing points at New York and St. Louis.

Vacuum Cleaning Installations.

The Blaisdell Machinery Co. of Bradford, Pa., has contracted to install the vacuum cleaning system in Hotel Emerson, now under construction at Baltimore. This company is represented in Baltimore by Wm. R. Hall, 639 N. Eutaw St., under whose supervision this plant will be installed. The plant will be similar to that installed by the Blaisdell company in the Waldorf-Astoria, New York, and the accumulated dust will be drawn directly into the outflow to sewer system. This company manufactures and installs a complete line of vacuum cleaning and scrubbing equipments of the stationary and portable types in any capacity, and has sales offices in many of the large cities, including Birmingham, Washington, Baltimore, Dallas, Memphis, Atlanta, St. Louis, Kansas City and New Orleans. Among the important buildings having the Blaisdell installation are Baltimore public schools; Agricultural Building, National Museum and Congressional Library at Washington; Shelby County Courthouse, Memphis; city schools and Masonic Temple, Birmingham; Bisbee Building, Jacksonville; Great Southern Hotel, Meridian, Miss.; Kansas City Postoffice, Kansas City, Mo.; Morgan Bros. Building, St. Louis. The company issues a special catalogue, illustrating and describing its vacuum cleaning apparatus.

Columbus Water-Works Co.

Notice in reference to the Columbus Water-Works Co. is being given in part as follows: "Notice is given to persons entitled to share in the distribution of the proceeds of the sale of the company's property that they must present their demands to W. S. Green, Master Commissioner, No. 11 W. 12th St., Columbus, Ga., on or before April 24. To persons having claims against the receivership, claiming preference over the mortgaged debt foreclosed, are notified that the delivery of the property to the purchasers at sale of March 7 was made on March 24, and that their claims must be presented by intervention within 30 days from said date of delivery. These notices are given in pursuance of the decrees of Court."

Contracts for Tucker & Laxton.

Messrs. Tucker & Laxton of Charlotte have obtained some important contracts recently and are actively engaged in soliciting other orders for their services. They are installing an electrical sterilization plant for the Republic Cotton Mills at Great Falls, S. C., and their other contracts include rewiring the entire plants of the Rock Hill Buggy Co. and the Arcade Cotton Mills of Rock Hill, S. C. Tucker & Laxton obtain pure water or sterile water from any source for municipal or industrial supply. They accept contracts for complete pumping, filtration, sterilizing, softening or iron-removal plants, and for hydraulic concrete work.

50,000 Domestic Irons Sold.

The Carolina Electrical Co., Raleigh, N. C., dealer in electrical supplies and apparatus, has added to its line of electrical supplies "hot point" irons and heating apparatus and the newly developed "wire type" tungsten lamps. The irons are manufactured by the Pacific Electric Heating Co. of Ontario, Cal., a comparatively new manufacturer of electrical heating apparatus, and said to be the first to make a yearly guarantee, which has now been extended to two years. The Pacific company reports that 50,000 "hot point" irons were sold last year. The "wire type" tungsten lamp has been developed by the Westinghouse Lamp Co. of Bloomfield, N. J., and is sold by the Westinghouse Electric & Manufacturing Co. of Pittsburg.

TRADE LITERATURE.

Climax Hoist Co.

Catalogue C, including hoists, trolleys and cranes, has been issued by the Climax Hoist Co., 1753 N. Howard St., Philadelphia. Illustrations are presented of chain hoists, single I-beam trolleys, traveling cranes, jib and Gantry cranes are shown in all capacities and sizes, together with detail drawings and descriptions. The company also manufactures many styles not shown, and will design and manufacture any kind that may be needed for any special service.

Buffalo Pitts Steam Roller.

The Buffalo Pitts steam rollers in the form of macadam rollers, tandem rollers, combination rollers, golf rollers, asphalt rollers and road scarifiers are shown in large illustrations, with complete descriptions, in the new catalogue of the Buffalo Steam Roller Co. of Buffalo, with branch offices at 15 Court Square, Boston, and 150 Nassau St., New York. Views of the rollers are shown engaged in the different forms of work required, including the driving of belt for stone crusher in one instance; also tests of roller descending a 39 per cent. grade and ascending a 28 per cent. grade under perfect control.

"W. & M. Telephone Wire News."

The American Steel & Wire Co., 115 Adams street, Chicago, publishes, in its "News" series, items of interest bearing on its various products, and in the "W. & M. Telephone Wire News" attention is given to subjects of telephone line construction, maintenance, pole steps, etc. This publication is attractively illustrated, including cover design, and includes lists of branch offices, sales agencies and sets of specifications for galvanized steel and iron telephone wires. The subjects treated are line accidents—their cause and prevention; quality in telephone wire; pole line construction; practical kinks in handling wire; engineering aspects of iron wire; telephone poles; iron and steel telephone wire specifications, etc. These subjects are all treated in an interesting and instructive way, and the following extract is taken from the article on engineering aspects of iron wire: "Conductivity in wire is a subject which the builder of a telephone system finds inseparable from the price relation. No one would think of building an iron-wire line from Chicago to New Orleans. But within certain limits the field of iron wire fluctuates with the price relation, and for certain purposes the engineer finds no excuse for not using it. The broad consideration governing its use is summed up in the phrase 'economical conductivity,' with due regard to the element of mechanical strength which enters into the life factor of the line. Ample engineering experience has shown the suitability of iron wire for all rural lines; for open wire lines in common battery exchanges up to a length giving a total loop resistance of 300 ohms in towns having but one office; for all open wires in magneto exchanges; for drop wires in magneto and common battery exchanges for short haul toll lines. Phantom circuits

can be operated over two metalic iron circuits. The phantom will have greater conductivity than either line composing it, and thus makes possible an extension of the transmission limits." Another article refers to the high value of eucalyptus for poles. This tree can be raised in Florida, and in California has reached a height of 80 feet and 12 inches in diameter in 12 years. It appears to be practically free from decay, and it is stated it will last underground from 25 to 50 years with little evidence of deterioration.

Construction of Modern Roads.

The Barrett Manufacturing Co., 17 Battery Pl., New York, has issued a booklet entitled "Modern Roads: Their Construction and Maintenance," which, besides being extensively illustrated with views of roads and pavements built with the "Tarvia" materials manufactured by this company, also gives detail instructions as to the use of these materials in construction. The three grades, "Tarvia X," "Tarvia A" and "Tarvia B," are described and the roads referred to as "tarvia filled macadam" and "tarvia modern pavement." In addition to the instructions the company will furnish specifications applying to any particular construction and locality, and through its engineers will extend information and advice as to the requirements and best practice. The company's various offices in the principal cities of this country and its foreign offices are listed. Reference is also made to Barrett's paving pitch for filling the joints of brick pavements.

The Birmingham Iron Market.

[Special Cor. Manufacturers Record.]

Birmingham, Ala., March 28.

The volume of business transacted in the pig-iron market during the past week was probably smaller than that for the week previous, but the status of quotations is unchanged. The sales effected were in the main comparatively small lots for prompt shipment, and the schedule of $11 per ton Birmingham for No. 2 foundry was fully maintained. Owing to the absence of transactions involving round tonnages, since the advance of prices for deliveries during the last half of this year, it cannot be said with accuracy just what can now be done for such deliveries. It is believed by the best authorities that a basis of $11.50 per ton Birmingham would be as low price as could be obtained for shipments during the last quarter, with a probable concession of 25 cents per ton from such a basis for strictly third quarter shipments. The quotations that are being made generally do not show a difference in the asking price for third and fourth quarter shipments, but there are reasons to believe that a compromise price of $11.25 per ton for third quarter deliveries would not be refused. There is considerable inquiry for the advanced deliveries, but consumers are very much disposed to await further developments before contracting at the higher prices. Such conditions are largely attributable to the fact that substantial increases in the price for the finished products are being effected very slowly. There is every reason to believe that founders generally are receiving a satisfactory volume of business without unfavorable indications in the outlook, but their selling prices had in a large number of cases declined in a greater proportion than the decline in the price of raw materials. The movement to founders continues at a very satisfactory rate, and no stocks of consequence are yet apparent on their yards. The fact that the consuming interests adhered to a conservative policy and did not buy other than for their actual requirements is now a very encouraging feature to the producers, who also take into consideration in summarizing market conditions the fact that of the tonnage now on order-books a very small proportion has been engaged by pig-iron merchants.

The reports from the cast-iron pipe market are in a general way quite similar to those of last week. The tonnage placed with local producers was about equal to the output, and was in such quantities as to facilitate higher prices. It is believed that quotations as shown herein are quite firm for the tonnage being offered, and that the active producing capacity is so limited at this time that no concessions of consequence would be made for large municipal contracts. This market is quoted as firm at $22 per net ton f. o. b. cars here for 4-inch to 6-inch water pipe, with the larger sizes correctly represented at prices from $1 to $2 per ton lower. For gaspipe an advance of $1 per ton over water-pipe quotations is being received.

A fairly attractive tonnage of Standard Alabama 72-hour foundry coke was sold during the past week, and coal forwardings were satisfactory. Operations at mines in this district have been increased recently, and still additional plans for the opening of new slopes are being considered. The percentage of washed coal from this district is to be increased materially, and it is understood that with the coming of the next season several additional brands of fancy domestic grades will be offered.

The building trades in the immediate vicinity are unusually active, and improvement to the public highways is being given considerable interest. In industrial circles, plans for substantial additions to buildings are under consideration, and considerable additional railway facilities will be required.

FINANCIAL NEWS

The MANUFACTURERS RECORD invites information about Southern financial matters, items of news about new institutions, dividends declared, securities to be issued, openings for new banks, and general discussions of financial subjects bearing upon Southern matters.

Review of the Baltimore Market.

Office MANUFACTURERS RECORD,

Baltimore, Md., March 29.

In the Baltimore stock market during the past week there was a moderate amount of activity. The trading showed sales as follows: United Railways common, 18¼ to 18⅞; do. trust certificates, 18⅛ to 18⅞; do. incomes, 63 to 64; do. funding 5s, 85¾ to 86; do. do. scrip, 85¾; United 4s, 84¾ to 84¼; Consolidated Gas, Electric Light & Power common, 90 to 92, and ex-dividend at 90¾; do. preferred, 100 to 98¾, and ex-dividend at 96; do. 4½s, 87¾ to 87½; Consolidated Gas 4½s, 96¼; Seaboard Air Line common, 21; do. preferred, 40¼; Seaboard Company common, 24; do. second preferred, 53⅞ to 53; Seaboard 4s, stamped, 86¾ to 87⅛; do. three-year 5s, 100; do. 10-year 5s, 100; Consolidated Cotton Duck common, 5; do. preferred, 19 to 20½; Mt. Vernon-Woodberry Cotton Duck 5s, 73½ to 73; G.-B.-S. Brewing 4s, 45¼ to 45.

Bank stock sold as follows: Bank of Baltimore, 155; Farmers and Merchants', 51; Mechanics', 28¾ to 29; Union, 140; Citizens', 42.

Maryland Trust preferred sold at 112 to 110; Fidelity & Deposit, 151; United States Fidelity & Guaranty, 162¼ to 161; Mercantile Trust, 144; American Bonding, 79; Maryland Casualty, 96½; Baltimore Trust, 165; Maryland Trust common, 82.

Other securities were traded in thus: Milwaukee Electric Railway & Light refunding 4½s, 93 to 93⅛; Alabama Consolidated Coal & Iron 5s, 85 to 85½; Anacostia & Potomac 5s, 100¼ to 100½; Baltimore Brick 5s, 82; Fairmont Coal 5s, 97¼; Jamison Coal & Coke, George's Creek 5s, 94¼ to 93½; Houston Oil common, 8 to 7; do. preferred, 54½ to 49, with last sale at 51; Maryland Electric 5s, 98½; Atlantic Coast Line of Connecticut, 226 to 227½; Charleston Consolidated Electric 5s, 96; Baltimore City 5s, 1916, 102½; do. 4s, 1926, 100; do. 3½s, 1930, 94; do. do. 1928, 93¾; do. 4s, 1960, 103½; Norfolk Railway & Light 5s, 99½ to 99¼; Virginia Railway & Power common, 41⅜ to 41; do. 5s, 92½; Georgia & Florida common, 11½; Minneapolis Street Railway and St. Paul City Railway joint 5s, 104¾; Baltimore City Passenger 5s, 100¼; Carolina Central 4s, 92; Florida Southern 4s, 91½; Georgia & Alabama Consolidated 5s, 105¼; Silver Springs, Ocala & Gulf 4s, 97¼; Fairmont & Clarksburg Traction 5s, 98⅜ to 98¾, Western North Carolina 6s, 104¾; German Fire Insurance, 17¼; Memphis Street Railway 5s, 97¼; Charleston & Western Carolina 5s, 106; Norfolk & Atlantic Terminal 5s, 92; Atlantic Coast Line Consolidated 4s, 94; Lake Roland Elevated 5s, 109⅜; Norfolk Railway & Light stock, 25; Norfolk & Portsmouth Traction 5s, 85⅞; Virginia New 3s, 85¼; do. Century, 85¾; Baltimore Traction 5s, 107¼; Atlantic Coast Line of Connecticut 5-20s, 92; City & Suburban (Baltimore) 5s, 105¾; Consolidation Coal, 100½; Georgia Southern & Florida 5s, 106¼; West Virginia Central 6s, 100⅜; Baltimore Electric 5s, stamped, 90⅝; Chicago Railway 5s, 98½; Somerset Car Trust 5s, December, 1912, 99½; Virginia Midland 5th, 106½; Northern Central Railway stock, 123¾; Charleston City Railway 5s, 103½; Milwaukee Gas 4½s, 90⅝; Anacostia & Potomac 5s, guaranteed, 102¾; Baltimore City 4s, 1925, 101.

SECURITIES AT BALTIMORE.

Last Quotations for the Week Ended March 29, 1911.

Railroad Stocks.	Par.	Bid.	Asked.
Atlantic Coast of Conn.	100	227½	230
Charleston Consolidated	50	31	38
Fairmont & Clarks. Trac. Pfd.	100	...	78
Georgia Sou. & Fla. 2d Pfd.	100	69½	73
Maryland & Pennsylvania	100	20	20½
Norfolk Railway & Light	25	...	25¼
Norfolk & Ports. Trac., new	100	39	...
Seaboard Co. Common	100	23½	24
Seaboard Co. 1st Pfd.	100	...	83
Seaboard Co. 2d Pfd.	100	52⅞	53
United Rys. & Elec. Co.	50	18⅝	18¾
Bank Stocks.			
Bank of Baltimore	100	...	156
Bank of Commerce	15	...	31½
Citizens'	10	41½	42½
Drovers & Mechanics'	100	222	230
Exchange	100	163½	...
Farmers & Merchants'	40	50	51
First National	100	148	151
German	100	103	...
Howard	10	13½	...
Marine	30	42	...
Maryland	20	26	...
Mechanics'	10	28½	29
Merchants'	100	...	195
Old Town	10	13	14
Union	100	139	141
Western	20	39	40¼
Trust, Fidelity and Casualty Stocks.			
American Bonding	25	79	...
Baltimore Trust	100	164½	...
Continental Trust	100	204	208
Fidelity & Deposit	50	...	155
Maryland Trust	100	...	82
Maryland Trust Pfd.	100	110	112
Mercantile Trust & Deposit	50	143¾	144
U. S. Fidelity & Guaranty	100	160½	162
Miscellaneous Stocks.			
Ala. Con. Coal & Iron	100	...	36
Ala. Con. Coal & Iron Pfd.	100	...	72
Baltimore Brick	100	2½	4
Baltimore Brick Pfd.	100	25	35
Con. Cotton Duck Common	50	5	6
Con. Cotton Duck Pfd.	50	20	21½
Con. Gas, Elec. Lt. & P. Com.	100	90	91½
Con. Gas, Elec. Lt. & P. Pfd.	100	95	96
Consolidation Coal	100	100½	101
G.-B.-S. Brewing Co.	100	1⅛	2½
Mer. & Miners' Trans. Co.	100	73	76
Railroad Bonds.			
Atlantic Coast 1st 4s		93⅞	94¼
Atlantic Coast Conv. Deben. 4s		97¼	97½
At. Coast (Conn.) 4s, Ctfs., 5-20s		92	...
Atlantic Coast (Conn.) 5s, Ctfs.		104½	...
Atlantic Coast (S. C.) 4s		96⅝	97¼
Carolina Central 4s		92	92¼
Charleston & West Carolina 5s		105¾	106
Coal & Coke Railway 5s		94	97
Coal & Iron Railway 5s		101¼	102½
Florida Southern 4s		91½	...
Georgia & Alabama 5s		105	105⅜
Georgia & Florida 5s		...	81
Georgia, Car. & Northern 1st 5s		104¾	105½
Georgia Pacific 1st 6s		111	...
Georgia Southern & Fla. 1st 5s		106	106½
Macon, Dublin & Savannah 5s		97½	98¼
Maryland & Pennsylvania 4s		88½	89½
Petersburg Class B 6s		116	116½
Piedmont & Cumberland 1st 5s		100	...
Potomac Valley 1st 5s		105	...
Raleigh & Augusta 1st 6s		114½	116½
Richmond & Danville 6s		105½	106½
Seaboard 4s, Stamped		86¾	87
Seaboard Adjustment 5s		75	76
Seaboard 10-year 5s		100	100⅛
Seaboard 3-year 5s		100	...
Seaboard & Roanoke 5s		106¼	108
Seaboard & Roanoke 6s		100	...
Suffolk & Carolina 5s		100	103
Virginia Midland 5th 5s		106	107
Virginia Midland G. M. 5s		107½	...
Western Maryland 4s		86¼	86⅝
Western N. C. Con. 6s		...	104¾
Wilmington & Weldon 5s		108	...
Street Railway Bonds.			
Anacostia & Potomac 5s		100⅜	100½
Anacostia & Potomac 5s, Gtd.		102½	103
Atlanta Con. Street Railway 5s		104¾	...
Augusta Railway & Electric 5s		101	...
Baltimore City Passenger 5s		100¼	...
Baltimore City Passenger 4½s		99¾	100
Baltimore, Sp. Pt. & C. 4½s		96	97
Baltimore Traction 1st 5s		...	108
Charleston City Railway 5s		103½	104
Charleston Con. Electric 5s		95½	96
City & Suburban 5s (Balt.)		...	105¾
City & Suburban 5s (Wash.)		102	103¼
Fairmont & Clarksburg Trac. 5s		98⅛	98½
Knoxville Traction 5s		104	...
Lake Roland Elevated 5s		...	109½
Maryland Electric Railways 5s		98	98½
Memphis Street Railway 5s		96½	...
Metropolitan 5s (Wash.)		106	...
Newport News & Old Point 5s		...	95
Newport News & O. P. G. M. 5s		60	...
Norfolk & Portsmouth Trac. 5s		85⅝	86
Norfolk Railway & Light 5s		99¼	99½
Richmond Traction 5s		104¼	...
United Railways 1st 4s		84⅛	84¼
United Railways Income 4s		63½	63⅞
United Railways Funding 5s		85¾	86
Miscellaneous Bonds.			
Ala. Con. Coal & Iron 5s		85¼	86
Baltimore Brick 5s		81½	82
Baltimore Electric 5s, Stp.		90⅝	91¼
Consolidated Gas 5s		109	...
Consolidated Gas 4½s		96	96½
Con. Gas, Elec. Lt. & P. 4½s		87⅛	87½
Con. Gas, Elec. Lt. & P. Notes		99	99½
Fairmont Coal 1st 5s		97	...
G.-B.-S. Brewing 1st 4s		45	45¼
Maryland Steel Co. 5s		101	...
Mt. Vernon-Woodb'y Cot. Duck 5s		72¾	73
United Elec. Lt. & P. 4½s		92½	93¾

SECURITIES AT BALTIMORE.

Quotations Furnished by William S. Glenn, Broker, Spartanburg, S. C., for Week Ending March 27.

	Bid.	Asked.
Abbeville Cotton Mills (S. C.)	...	75
Aiken Mfg. Co (S. C.)	80	...
American Spinning Co. (S. C.)	160	...
Anderson Cotton Mills (S. C.)	...	48
Anderson Cot. Mills (S. C.) Pfd.	...	100
Arcadia Mills (S. C.)	98	...
Arkwright Cotton Mills (S. C.)	99	100
Augusta Factory (Ga.)	40	...
Avondale Mills (Ala.)	116	...
Belton Mills (S. C.)	130	188
Brandon Mills (S. C.)	95	103
Brogon Mills (S. C.)	...	90
Cannon Mfg. Co. (N. C.)	135	...
Cabarrus Cotton Mills (N. C.)	130	135
Chadwick Mfg. Co. (N. C.) Pfd.	100	...
Chiquola Mfg. Co. (S. C.)	...	170
Clifton Mfg. Co. (S. C.)	...	85
Clinton Cotton Mills (S. C.)	...	120
Columbus Mfg. Co. (Ga.)	93	98
Courtnay Mfg. Co. (S. C.)	...	100
Dallas Mfg. Co. (Ala.)	99	...
Darlington Mfg. Co. (S. C.)	...	80
D. E. Converse Co. (S. C.)	...	90
Drayton Mills (S. C.)	95	100
Eagle & Phenix Mills (Ga.)	117	...
Easley Cotton Mills (S. C.)	165	175
Enoree Mfg. Co. (S. C.)	50	55
Enoree Mfg. Co. (S. C.) Pfd.	96	100
Enterprise Mfg. Co. (Ga.)	65	75
Exposition Cotton Mills (Ga.)	...	200
Gaffney Mfg. Co. (S. C.)	67	72
Gainesville Cotton Mills (Ga.)	72	80
Glenwood Cotton Mills (S. C.)	...	150
Gluck Mills (S. C.)	102	106
Granby Cot. Mills (S. C.) 1st Pfd.	35	45
Graniteville Mfg. Co. (S. C.)	140	145
Greenwood Cotton Mills (S. C.)	57	60
Grendel Mills (S. C.)	90	103
Hartsville Cotton Mill (S. C.)	160	175
Henrietta Mills (N. C.)	160	175
Inman Mills (S. C.)	100	108
King Mfg. Co., J. P. (Ga.)	80	85
Lancaster Cotton Mills (S. C.)	130	...
Lancaster Cot. Mills (S. C.) Pfd.	97	100
Langly Mfg. Co. (S. C.)	105	112
Laurens Mills (S. C.)	127	135
Limestone Mills (S. C.)	155	160
Lockhart Mills (S. C.)	...	68
Lockhart Mills (S. C.) Pfd.	90	100
Loray Cotton Mills (N. C.) Pfd.	95	97½
Marlboro Cotton Mills (S. C.)	...	80
Mills Mfg. Co. (S. C.)	...	102
Mollohon Mfg. Co. (S. C.)	95	105
Monaghan Mills (S. C.)	100	...
Monarch Cotton Mills (S. C.)	105	...
Newberry Cotton Mills (S. C.)	125	130
Ninety Six Cotton Mills (S. C.)	130	150
Norris Cotton Mills (S. C.)	121	130
Olympia Cotton Mills (S. C.)	90	...
Orr Cotton Mills (S. C.)	95	...
Pacolet Mfg. Co. (S. C.)	...	90
Pacolet Mfg. Co. (S. C.) Pfd.	95	100
Pelzer Mfg. Co. (S. C.)	...	169
Piedmont Mfg. Co. (S. C.)	175	177
Poe Mfg. Co., F. W. (S. C.)	110	125
Saxon Mills (S. C.)	130	...
Sibley Mfg. Co. (Ga.)	65	68
Spartan Mills (S. C.)	125	132
Trion Mfg. Co. (Ga.)	...	130
Tucapau Mills (S. C.)	310	350
Union-Buffalo (S. C.) 1st Pfd.	74	80
Union-Buffalo (S. C.) 2d Pfd.	...	16
Victor Mfg. Co. (S. C.)	115	120
Warren Mfg. Co. (S. C.)	90	95
Warren Mfg. Co. (S. C.) Pfd.	100	105
Washington Mills (Va.)	28	...
Washington Mills (Va.) Pfd.	106	110
Whitney Mfg. Co. (S. C.)	110	...
Wiscassett Mills (N. C.)	...	135
Woodruff Cotton Mills (S. C.)	110	118
Woodside Cotton Mills (S. C.)	95	100
Watts Mills (S. C.)	80	90
Williamston Mills (S. C.)	120	125

Title Guarantee & Trust Co.

The Title Guarantee & Trust Co., Baltimore, Md., has issued a neat booklet entitled "Tales of Twenty-Two Titles," explaining the value of an exhaustive examination of titles to real estate. The company reports total receipts, $109,198; expenditures, $71,072; net earnings, $38,125; capital stock, $200,000; undivided profits, $87,494; total assets, $435,918; Edgar G. Miller, Jr., president; Robert H. Smith, vice-president; C. Alex. Fairbanks, Jr., second vice-president and chief title examiner; John H. Duncan, secretary-treasurer; Thomas B. Marshall, assistant secretary and treasurer, and William D. Poultney, real estate officer. Offices are in the Calvert Building.

FINANCIAL CORPORATIONS.

Ark., Bentonville.—A loan and trust company capitalized at $100,000 is reported being organized by C. G. Sutherland of St. Louis, Mo.; Dr. C. B. Still of Kirksville, Mo., and others of St. Louis.

Ala., Birmingham.—Malone-McConnell Real Estate & Insurance Co. incorporated with headquarters at Birmingham; capital, $36,000; R. McConnell, president; W. N. Malone, vice-president; H. A. Moseley, secretary and treasurer.

Ark., Huntsville.—Official: The Farmers & Merchants' Bank incorporated; capital $25,000. Business begins March 25 with directors thus: Sam Kennedy, president; F. D. Sisco, vice-president; Gordon Hawkins, cashier; John M. Parker, assistant cashier; John M. Parker, Lon Garrett, J. B. Harris and John Logan.

Ark., Watson.—Official: Bank of Watson incorporated; capital, $10,000. Directors, G. T. Blockwood, president; W. J. Massey, vice president; D. E. Donson, F. M. Rogers, R. L. Mays and B. M. Ford. C. C. Haynes is cashier.

[For Additional Financial News, See Pages 76 and 77.]

Established 1835

The Merchants National Bank

South and Water Sts., BALTIMORE, MD.

DOUGLAS H. THOMAS, President.
WM. INGLE, Vice-Pres. and Cashier.
J. C. WANDS, Asst. Cashier.
JOHN B. H. DUNN, Asst. Cashier.

Capital $1,500,000
Surplus and Profits - - - - $900,000
Deposits, $12,000,000

Accounts of Banks, Bankers, Corporations and Individuals solicited. We invite correspondence.

THE FIRST NATIONAL BANK

OF KEY WEST, FLA.

United States Depository and Disbursing Agent.

Capital - - - - - - $100,000
Surplus and Undivided Profits - $40,000

A general banking business transacted.
Special attention given to collections.

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FIRST NATIONAL BANK OF RICHMOND, VA.

With assets of nine million dollars, offers just the additional facilities required.
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Jno. M. Miller, Jr., Vice-Pres. & Cashier.

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Municipal and Corporation
Cotton Mill Stock a Specialty

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DELAWARE TRUST CO.

WILMINGTON, DEL.

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Fully Equipped Department for the Organization of Corporations under advice of Counsel, and for the Registration of Corporations as required by the Delaware Law.
Represents over 500 Domestic and Foreign Corporations.
The Delaware Corporation Law is Broad, Liberal, Safe and Stable. Granting and annual taxes low.

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Wm. S. Hammond Cash. Saml. W. Tschudi, A. Cash.
R. E. Bolling, A. Cash. Raymond B. Cox, Auditor.

The First National Bank

17 South St., Baltimore, Md.

Capital - - - - - - $1,000,000
Surplus and Net Profits - - 560,000
Resources - - - - - 9,000,000

Especially well equipped to handle the business of Southern Manufacturers, Corporations and Individuals. We invite a call or correspondence.

1863—48 Years of Success—1911

The National Exchange Bank

OF BALTIMORE, MD.

Hopkins Place, German and Liberty Sts.

Capital, $1,000,000
July 15, 1908, Surplus and Profits $671,631.60

OFFICERS:

WALDO NEWCOMER, President.
SUMMERFIELD BALDWIN, Vice-Pres.
R. VINTON LANSDALE, Cashier.
C. G. MORGAN, Asst. Cashier.

Accounts of Mercantile Firms, Corporations, Banks, Bankers and Individuals Invited.

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We purchase SCHOOL, COUNTY and MUNICIPAL BONDS. Southern Municipal Bonds a Specialty.
Write us if you have bonds for sale.

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JACKSONVILLE, FLA.

Authorized Capital, - - $600,000

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Acts as Guarantors, Trustees, Executors, etc.

Southern Steam Railroad Securities

DEALT IN

F. J. LISMAN & CO.

Specialists in Steam R. R. Securities
Members New York Stock Exchange,
30 Broad Street NEW YORK
39 Pearl Street, Hartford.
Land Title & Trust Bldg., Philadelphia.

CAPITAL AND SURPLUS - - - - $3,500,000

THE BALTIMORE TRUST CO.

BALTIMORE, MD.

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Interest Allowed on Deposits Subject to Check.
Special Rates Made on Time Deposits.

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G. C. MORRISON, Second V.-Prest. — SAMUEL C. ROWLAND, Third V.-Prest.
C. D. FENHAGEN, Secretary-Treasurer

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MANILA ROPE TRANSMISSION

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Low in first cost and maintenance.
High in efficiency.
Positive and steady in operation.
Noiseless while running.
Unlimited in amount of power that may be transmitted.

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All the essential qualities of a rope for driving purposes are combined in

"AMERICAN" TRANSMISSION ROPE

It is weatherproof and is not affected by exposure to heat, cold or moisture. It requires no external dressing of any kind, as it is self-lubricating and stretched in process of manufacture.

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Thomas Evans at Hotel Grunewald, New Orleans, direct, and get quick action

Peabody, Houghteling & Co.

(Established 1865)

181 La Salle Street — Chicago, Ill.

Ga., Atlanta.—The Piedmont Life Insurance Co., capital $100,000, has made application for a charter; petitioners, H. H. Wilson, T. P. Holliday, W. N. Edenfield, H. C. Wood and B. M. Wood, all of Fulton county, Georgia.

Ga., Dawson. — The American National Bank of Dawson is reported to have made application for a charter; capital $100,000; Judge M. C. Edwards, president; Dr. S. D. Bowman, first vice-president and cashier; N. G. Cruger of Albany, second vice-president; T. W. Martin, assistant cashier.

Ga., Devereux.—The Bank of Devereux is reported to have made application for a charter; capital $25,000; petitioners, J. M. Moate, E. R. Fox, F. M. Courson, D. L. Butts, W. A. Bass, T. H. Coleman and C. W. Coleman of Devereux, and John D. Walker of Sparta.

Ga., East Atlanta (P. O. Atlanta).—The East Atlanta Bank is reported to have begun business; E. A. Minor, president; T. L. Simpson, vice-president; J. H. Ozmer, vice-president; Frank M. Kirkpatrick, cashier; directors, G. W. Marbut, R. L. Clay, B. W. Parker, F. P. H. Akers, B. F. White, John D. Walker, L. L. Marbut, W. S. Loftis, D. O. Smith, Dr. C. R. Jolly, W. H. McLain, J. S. McWilliams, J. Frank Carroll.

Ky., Dover.—Official: The Equitable Trust Co. incorporated; capital $15,000; directors, E. A. Robinson, president; F. N. Foster, first vice-president; C. L. Wood, second vice-president, all of Maysville, Ky.; J. Elgin Anderson, secretary, Dover; A. D. Cole and W. H. Rice of Maysville.

La., New Orleans.—Boone, Simmons & Co. are reported chartered with $300,000 capital to engage in selling stocks and bonds of other corporations; John T. Boone, Sr., president; E. G. Simmons, vice-president and treasurer, and John T. Boone, Jr., secretary.

Md., Baltimore.—The Woodlawn Building and Loan Association has organized with $50,000 capital. Officers. President, Frank Mett; secretary, M. Clifton Smink; treasurer, Samuel C. Mahle; counsel, John J. Timanus; directors, Frederick A. Seidelich, William T. Jones, Charles M. Younger, Edward J. Kelly and Milburn I. Mullineaux.

Miss., Biloxi.—A new building and loan association is reported being organized by J. E. and A. H. D'Alemberti.

Miss., Greenville.—Official: The Mississippi Building & Investment Co. incorporated; capital, $25,000. Incorporators: Joe Weinberg, president; W. P. Kretchman, Will Isenberg and Percy Bell.

N. C., Hobbsville.—Official: The Farmers' Bank of Gates at Hobbsville incorporated; capital $10,000; A. F. Rountree, president; C. B. Hathaway, vice-president; W. G. Sykes, cashier; E. A. Rountree, assistant cashier. Business is to begin immediately after completion of building.

Okla., Collinsville. — The First National Bank, which is a conversion of the Oklahoma State Bank, is reported chartered; capital $25,000; N. O. Colburn, vice-president; G. L. Hicks, cashier.

Okla., Cordell. — The Farmers' National Bank, capital $25,000, is reported approved; N. T. Gilbert, president; Burt Edwards, cashier; R. W. Hutts, assistant cashier.

Okla., Eldorado.—The First National Bank, capital $25,000, is reported chartered; A. P. Pierce, president; R. M. Thorp, vice-president; E. M. Francis, assistant cashier. This is a conversion of the First State Bank of Eldorado.

Okla., Jennings. — The Oklahoma State Bank is reported incorporated with $10,000 capital. Directors: U. B. Charles and Lee Patrick of Stroud; C. W. Carpenter of Cushing.

Okla., Lawton. — The Lawton National Bank is reported chartered; capital $100,000; A. B. Dunlap, president; N. T. Gilbert and P. T. Bendlow, vice-presidents; Frank L. Hotch, cashier; Lee H. Madden and E. E. Cones, assistant cashiers.

Okla., Nowata. — Official: The Producers' National Bank, converted from State bank, chartered; capital $50,000; surplus $2200. Incorporators: W. A. Chase, president; Archibald Campbell, vice-president; F. B. Reynolds, cashier; A. J. Reynolds, assistant cashier, and others.

Okla., Olustee.—The First National Bank of Olustee is reported chartered; capital $25,000; J. M. Morton, president; A. D Smith and J. W. Edwards, vice-presidents; R. R. Jackson, cashier. (Conversion of the First State Bank of Olustee.)

Okla., Sayre.—The First National Bank, capital $25,000, is reported chartered by E. K. Thurmond, president; I. C. Thurmond, vice-president; Guy Ford, cashier; C. C. Cabines, assistant cashier.

Okla., Temple.—The Temple National Bank is reported approved; capital $25,000; A. B. Dunlap, president; N. T. Gilbert, vice-president; B. H. Graves, cashier; C. A. Jemison, assistant cashier. This is a conversion of the First State Bank.

S. C., Charleston.—The Citizens' Bank will, it is stated, begin business April 10 at 265 King St.; capital $100,000. Directors: A. W. Litschgi, president; John P. De Veaux, vice-president; C. R. I. Brown, cashier; W. J. Condon, James Doran, Henry Hirschman, A. W. Litschgi, O. G. W. Marjenhoff, Robert E. Martin, John McAlister, W. J. O'Hagan, H. Pearlstine, M. Rutledge Rivers, A. H. Silcox, G. Sottile; solicitors, Messrs. Burke, Rivers and Erckmann.

S. C., Manning.—The Home Bank & Trust Co. is reported to have begun business; capital $25,000; Charlton Durant, president, and C. W. Wells, cashier.

S. C., Smoaks.—The Bank of Smoaks is reported chartered; capital $15,000; organizers, W. H. Varn, A. E. Varn and S. P. J. Garris, Sr., all of Smoaks.

S. C., St. George.—The Industrial Trust Co., capital $5000, is reported to have completed its organization by electing officers thus: President, Dr. W. P. Shuler; vice-president, Walker S. Utsey; treasurer, O. B. Dukes; secretary, J. Olin Horne. The directors are W. B. Risher, F. E. Hinnant, Fitz U. Parler, O. B. Dukes and R. J. Mebane.

S. C., Winnsboro.—Official: The Winnsboro Insurance & Real Estate Co. has applied for charter; authorized capital, $7500; subscribed, $4000; president, John F. Davis; vice-president, A. B. Cathcart; secretary-treasurer and general manager, Frank Sharpe; directors, J. F. Davis, A. B. Cathcart, J. E. McDonald, John H. McMaster and L. E. Owens. Business is to begin immediately.

Tenn., Greeneville.—A new bank, capitalized at $25,000, is reported being organized with J. F. Hannah as president.

Tenn., Jackson.—The Mercantile Trust Co., capital $100,000, is reported to have filed its charter; incorporators, R. B. Hicks, S. D. Waddill, I. B. Tigrett, W. H. Biggs, R. F. Spragins and F. B. Fisher.

Tenn., Maury City.—The Planters' Bank of Maury City is reported incorporated with $10,000 capital by J. D. Riddick, J. H. Eason, J. B. Ezell, J. F. Peal and R. L. Eason.

Tenn., Nashville.—The Federal Life & Casualty Co. of Tennessee is reported chartered; capital $500,000; incorporators, B. W. Montgomery, J. C. Collins, William Hume, Jr., A. P. Foster, W. L. Danley, E. M. Kelly, Isaac T. Rhea, Wm. C. Collier and W. F. Hunt.

Tenn., Readyville.—The Bank of Readyville, capital $15,000, is reported incorporated by S. H. Harris, J. S. Odom, W. F. Dickens, L. M. Jetton, J. D. Carter, B. H. Carter, C. O. Wright, J. L. Barker, S. T. Jordan, Walter Hancock, D. M. Macon, W. E. Youree and E. M. Holmes.

Tex., Appleby.—Official: The First State Bank chartered; capital $10,000. Directors: Chas. H. Tindall, president; W. J. Shepherd, vice-president; J. H. Gray, cashier; W. H. Gray and J. P. Coon. Business is to begin about April 15.

Tex., Asherton. — Official: The Asherton State Bank chartered and incorporated; capital $10,000; R. W. Taylor, president; Dr. J. F. Nooe, vice-president, and R. Spencer, cashier; directors, Asher Richardson, W. A. H. Miller, E. F. Schumann, R. Spencer, R. W. Taylor, D. A. Walker and L. Dillon. Business began February 14.

Tex., Beasley.—The First Guaranty State Bank of Beasley incorporated; capital $10,000; incorporators, O. C. Orbeck, H. L. Fuchs, W. J. Otto and others.

Tex., Fort Worth.—The Reynolds Mortgage Co., capital $100,000, is reported organized with officers thus: E. T. Ambler, president; R. B. Bishop, vice-president and general manager; W. D. Reynolds, vice-president; C. T. Burns, treasurer; J. S. Manning, secretary; Sidney L. Samuels, corporate counsel.

Tex., Fort Worth.—The Reynolds Mortgage Co. is reported chartered; capital $100,000. Incorporators: E. T. Ambler, W. D. Reynolds, G. T. Reynolds and others.

Tex., Menard.—The First National Bank is reported approved; capital $35,000. Organizers: L. G. Callan of Menard, Tex.; G. R. White, W. D. Crother, J. T. Mann and O. L. McShan.

Tex., Newlin.—The Farmers' State Bank, capital $10,000, is reported incorporated by Charles Drake, J. O. Hemphill, J. R. Nelson and others.

Tex., North Zulch.—The Farmers' Guaranty State Bank of North Zulch is reported chartered with $10,000 capital.

Tex., Orange.—Official: The Gulf Live-Stock Co. chartered; capital $10,000; directors, Sam C. Trimble, president; Geo. E. Holland, vice-president; Geo. M. Sells, treasurer; F. W. Hustmeyer, secretary; W. L. Joiner. J. J. Love is general agent. Business is to begin immediately.

Tex., Pittsburg.—The First Guaranty State Bank, capital $35,000, is reported organized with S. R. Greer active president, J. M. Clark vice-president, C. G. Engledow cashier; directors, Phillip Dolinski, W. A. Smith, J. M. Clark, Louie B. Hess, S. R. Greer.

Tex., Sherman. — Official: The American Bank & Trust Co. of Sherman chartered; capital $200,000. Business began March 15 with W. C. Eubank president, D. S. Thompson vice-president, Barlow Roberts cashier, T. U. Cole, T. D. Joiner, C. B. Dorchester, C. E. Craycroft, Geo. E. Hardwick, I. J. Kimberlin and C. A. Kelly.

Tex., Swan.—The First State Bank is reported chartered; capital, $10,000; incorporators, Bruce Wheeler, C. T. Powell, E. S. Roberts and others.

Tex., Waco. — The Lumbermen's Loan & Security Co., proposed capital $500,000, is reported being organized. Among those said to be interested are W. W. Cameron and E. R. Bolton.

Tex., Wichita Falls.—The Wichita Southern Life Insurance Co. is reported approved; capital $115,000; incorporators, E. P. Greenwood, Frank Kell and Robert E. Huff.

Va., Dillwyn.—Efforts are reported being made to organize a new bank.

W. Va., Northfork. — Official: The State Bank of Northfork chartered; capital $25,000; incorporators, R. R. Roberts, S. H. Huff, A. D. Rice, J. H. Robin, all of Northfork, and E. H. Evans of Elk, W. Va.

W. Va., Warwood.—Official: The Bank of Warwood chartered and incorporated; capital $25,000; incorporatoss, Alfred Paull of Wheeling, W. Va., and others. Business is to begin about May 1.

NEW SECURITIES.

Ala., Decatur.—City is reported to have sold $25,000 of city hall bonds.

Ala., Flomaton.—Official: Bids are to be opened at once for $6000 of 20-year school-building bonds voted March 13. Address A. L. Brazil.

Ala., Gadsden.—Official: April 24 election will be held to vote on $50,000 of 5 per cent. 30-year water-works bonds. Denomination $500; dated June 1, 1911. Address The Mayor and City Council.

Ark., Fort Smith.—Wm. R. Compton Company and Mercantile Trust Co., St. Louis, were awarded at par and accrued interest $750,000 of an authorized issue of $750,000 of 5 per cent. bonds of a special improvement district created under the improvement laws of Arkansas; denominations, $500 and $1000; Dated April 1, 1911; maturing, $160,000 in 1923, $170,000 in 1924, $180,000 in 1925 and $40,000 in 1926; proceeds to be used in purchasing local water plant; commissioners, Harry E. Kelley, chairman; J. M. Tenney, secretary, and Samuel McLoud.

Fla., Lake Butler.—A petition is reported filed with the City Council asking that an election be held to vote on $30,000 of school bonds. Joe H. Williams is City Attorney.

Fla., Pensacola.—Press dispatches state that bids will be opened May 2 to vote on $100,000 of sewer bonds. Address Board of Bond Trustees.

Ga., Barnesville.—April 18, it is reported, an election is to be held to vote on $50,000 of bonds; $35,000 for erection of buildings for Gordon Institute and $15,000 for enlarging water, light and sewerage systems.

Ga., Colquit.—Reported voted. $22,000 of improvement bonds.

Ga., Macon.—Press dispatches state that the election called for May 10 to vote on $375,000 of Bibb county courthouse, road and bridge bonds has been postponed.

Ga., Manchester.—James S. Peters, City Clerk and Treasurer, is reported receiving bids for $10,000 of 5 per cent. school-building bonds.

Ga., Macon.—Official: Voted March 18: $900,000 of 4½ per cent. 5-30-year bonds for purchase and improvement of water-works; denomination $1000. Bonds cannot be offered for sale until after the meeting of the Legislature in June. John T. Moore is Mayor.

Ga., Swainsboro.—An election is to be held April 17, it is reported, to vote on $40,000 of 5 per cent. water-works and electric-light bonds; denomination $1 to $1000.

Ga., Sylvania.—J. H. Hillsman & Co. of

SOUTHERN RAILWAY COMPANY

30 Church St., New York, Feb. 17, 1911.

A DIVIDEND OF ONE PER CENT. (1%) out of accumulated income has been declared on the PREFERRED STOCK of the Company, payable April 24, 1911, to stockholders of record at the close of business April 1, 1911.

R. D. LANKFORD, Secretary.

23 Wall St., New York, Feb. 17, 1911.

On April 24, 1911, the Voting Trustees for Preferred Stock Trust Certificates of the Southern Railway Co., WHICH HAVE ASSENTED TO THE EXTENSION AGREEMENT OF AUGUST 27, 1902, will be prepared to distribute the above dividend of one per cent. (1%) when received by them, among the parties entitled thereto, as same appear of record on their books at the close of business April 1, 1911.

J. P. MORGAN & CO.,
Agents for Voting Trustees.

62 62 62

VIRGINIA-CAROLINA CHEMICAL CO.
Treasurer's Office
Richmond, Va., March 14, 1911.
Dividend No. 62

The Board of Directors have this day declared a dividend of TWO (2%) PER CENT., the same being consecutive Quarterly Dividend No. 62 on the Preferred Stock of this Company, payable April 15, 1911, to stockholders of record at the close of business March 31, 1911.

Preferred transfer books will be closed from 3 P. M., March 31, 1911, to 10 A. M., April 17, 1911.

S. W. TRAVERS, Treasurer.

SURETY BONDS

Fidelity and Deposit Co.
OF MARYLAND

Home Office, BALTIMORE, MD

Assets Over $5,000,000

Pioneer Surety Co. of the South.
Becomes Surety on bonds of every description.

AGENTS IN ALL PRINCIPAL CITIES

HARRY NICODEMUS, Sec'y and Treas. EDWIN WARFIELD, President.

GO SOUTH!

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C. R. CARPENTER,
Public Accountant and Auditor,
Room 11 Haden Building, Charlottesville, Va.

Incorporated Under Special Act of Legislature
BALTIMORE AUDIT COMPANY
1027-1029 Calvert Bldg., BALTIMORE, MD.
All work executed by or under direct supervision of Certified Public Accountants.

Atlanta are reported to have been awarded at par and legal expenses and cost of engraving $40,000 of 5 per cent. water-works, sewer and electric-light bonds; denomination $1000.

Ky., Lexington.—C. C. Miller & Co. are reported to have purchased at par $2,117.02 of 6 per cent. street-improvement bonds.

Ky., Louisville.—Official: John W. and D. S. Green, Louisville, Ky., were awarded the $500,000 of 4½ per cent. 40-year General City Hospital bonds at $1071.88 premium; denomination $1000; dated March 1, 1911; maturity March 1, 1951. John H. Leathers is chairman Hospital Commission.

Ky., Shelbyville.—Press dispatches state that an election will be held in November to vote on $50,000 of improvement bonds.

La., New Orleans.—Negotiations are reported in progress by McCoy & Co. of Chicago for the purchase of $7,000,000 of public improvement bonds.

La., Tallulah.—Reported that a 1¼-mill tax has been voted to secure a $15,000 bond issue of School District No. 1.

La., Lake Charles.—Reported that $125,000 of sewerage bonds are being placed at private sale.

Md., Baltimore.—An ordinance has been passed by the First Branch of the City Council providing for an election to vote on $5,000,000 of paving loan. J. Barry Mahool is Mayor.

Md., Cambridge.—Bids will be received until 8 P. M. April 11 by Commissioners of Cambridge for $50,000 of 5 per cent. bonds; denomination $500. George M. Phillips is Mayor.

Md., Hagerstown.—Reported voted: $50,000 of park bonds.

Miss., Ripley.—Official: Bids will be opened April 3 by J. W. Street, clerk, or W. L. McBride, W. E. Pegram and W. T. Brumley, commissioners, Chalybeate, Miss., for $5000 of the $25,000 of 6 per cent. bonds authorized February 6 for channelling Muddy Creek; denomination $100; dated March 1, 1911. The remaining $20,000 will be issued as money is needed—perhaps within a year. The proposed bond sale of March 20 was postponed on account of bonds not being printed.

Miss., Rolling Fork.—Reported that bids will be received until noon May 1 by the Board of Supervisors or treasurer of Sharkey county until noon May 1 for $50,000 of 6 per cent. 40-year road bonds.

Miss., Meridian.—An ordinance has been prepared authorizing the sale of $75,000 of 6 per cent. 20-year school bonds. C. W. O'Leary is City Clerk.

Mo., Springfield.—April 11 Greene county will, it is reported, vote on $150,000 of courthouse completion bonds.

N. C., Albemarle.—Reported that Northern parties have purchased at par $30,000 of 5½ per cent. 30-year municipal bonds.

N. C., Andrews.—Bids will be opened April 15 for $20,000 of 5½ per cent. 30-year waterworks, electric light and street improvement bonds. H. N. Wells is Mayor and W. B. Fisher, Town Clerk.

N. C., Durham.—Hambleton & Co. and Baker, Watts & Co., Baltimore, have purchased $145,000 of city bonds at 105.94.

N. C., Farmville.—Official: Bids will be received by T. C. Turnage, Mayor, until noon April 15 for $5000 of 5 per cent. 30-year electric-light, water and street-improvement bonds.

N. C., Fayetteville.—Weil, Roth & Co. of Cincinnati are reported to have purchased $50,000 of 10-year paving bonds at $50 premium and $20,000 of 30-year water-works bonds at $205 premium.

N. C., Fayetteville.—Reported voted: $50,000 of school-building bonds.

N. C., Fayetteville.—Weil, Roth & Co. of Cincinnati are reported to have been awarded $70,000 of filtration and street paving bonds.

N. C., High Point.—Official: Bids will be received until 2.30 P. M. April 10 for $20,000 of 5 per cent. 30-year funding bonds; denomination $1000; dated April 1, 1911; Fred N. Tate, Mayor.

N. C., Murphy.—Official: General Assembly has authorized $150,000 of 5 per cent. 30-year Murphy Township building and macadamizing road bonds. Bids for $50,000 are now being received; denomination $500; dated May 1, 1911. W. H. Woodbury is chairman Highway Commission, and M. L. Mauney, secretary.

N. C., Murphy.—Town is reported to have sold to Chicago bankers $25,000 of 5½ per cent. 30-year water bonds at par.

N. C., Parkton.—The Legislature is reported to have authorized an issue of school-building bonds.

N. C., Red Springs.—Official: Bids will be received until 11 A. M. April 27 for $35,000 of 30-year water-works and sewerage improvement bonds; interest not exceeding 5½ per cent.; dated June 1, 1911; denomination $500. A. B. Pearsall is chairman Board of Public Works.

N. C., Thomasville.—Press dispatches state that all bids received March 15 for the $75,000 of water-works and sewerage bonds were rejected. W. O. Burgin is Mayor.

N. C., Winston-Salem.—Wm. D. Jackson, Secretary and Treasurer, is reported receiving bids for $100,000 of 4½ and 5 per cent. refunding bonds; denomination $1000.

Okla., Altus.—An election is reported to have been held March 21 to vote on $25,000 of school site bonds.

Okla., Francis.—Attorney-General is reported to have approved an issue of waterworks bonds.

Okla., Guthrie.—Reported that between now and April 1 State Auditor Leo Meyer will issue $175,000 of public building warrants or bonds.

Okla., Kenefick.—Steps are reported taken to issue $20,000 of high school building bonds.

Okla., Beggs.—An election is to be held, it is reported, to vote on $8200 of high school bonds.

Okla., Lamont.—Bids will be received at any time for $20,000 of 6 per cent. 25-year water-works bonds; denomination $500; dated day of sale. Address President of the Town Trustees.

Okla., Muskogee.—Official: Spitzer-Rorick Company of Toledo, O., purchased March 6 the $390,000 of water-works, $225,000 of sewer and $35,000 of garbage-disposal 5 per cent. 25-year bonds; denomination $1000; dated March 1, 1911; maturity, March 1, 1936.

Okla., Muskogee.—April 4, it is stated, an election is to be held to vote on $175,000 of school building bonds.

Okla., Oklahoma City.—A. J. McMahan, 506 Insurance Bldg., Oklahoma City, is reported to have been awarded at $3250 premium the $400,000 water-works, sewer and hospital bonds. Bob Parman is City Clerk.

Okla., Sapulpa.—R. J. Edwards of Oklahoma City purchased $120,000 of 25-year Creek county funding warrants; denomination $1000; dated March 4, 1911; maturity, March 4, 1936. Abner Brun is County Clerk.

Okla., Sentinel.—Reported voted: $3000 of water-works extension and $12,000 of electric-light 6 per cent. bonds.

Okla., Tahlequah.—April 4, it is reported, an election is to be held to vote on $6000 of city hall and jail bonds.

Okla., Tahlequah.—An election is to be held April 4, it is reported, to vote on $6000 of city hall and jail bonds.

Okla., Tecumseh.—The Commissioners of Pottawatomie County have, it is reported, authorized an issue of $85,000 of 5½ per cent. 20-year bonds to pay off outstanding warrants.

Okla., Vian.—April 4, it is reported, an election is to be held to vote on $20,000 of electric-light and water-works bonds.

S. C., Columbia.—An official letter says that the $75,000 of bridge bonds were voted by Columbia township, and not city of Columbia, as recently reported. Address W. F. Muller, Supervisor, Columbia.

S. C., Columbia.—Official: Townsend Scott & Son and Baker Watts & Co., both of Baltimore, were the purchasers of $850,000 of chiefly reconstruction debt 5 per cent. bonds. Denomination $1000; dated March 1, 1911; maturity March 1, 1931. R. W. Shand is superintendent of finance. W. H. Gibbes is Mayor.

S. C., Greenville.—Steps are reported being taken to hold an election to vote on $40,000 of 5 per cent. bonds for erection of school building in Ward 1.

S. C., Rock Hill.—A. B. Leech & Co. of Chicago are reported to have been awarded, at par with actual interest, $285,000 of public-works bonds. John T. Roddey is Mayor.

S. C., Spartanburg.—Reported voted: $50,000 of 4½ per cent. 30-year school bonds; denomination $500.

Tenn., Chattanooga.—The Chattanooga Clearing-house Association is reported to have purchased $500,000 of 4½ per cent. 30-year Hamilton county road bonds at $7561 premium.

Tenn., Jackson.—Reported that application is to be made to the Legislature for authority to issue $135,000 of school, sewer and other bonds.

Tenn., Memphis.—Steps are reported being taken to issue $200,000 or $250,000 of school bonds.

Tenn., Memphis.—Press dispatches state that a bill has been prepared authorizing Shelby county to issue $100,000 25-year bonds for State Normal School for West Tennessee; interest not to exceed 5 per cent.

Tenn., Memphis.—Press dispatches state that the question of issuing $250,000 of school bonds is under consideration.

Tenn., Nashville.—The question of issuing $11,000 of 3½ per cent. 30-year refunding bonds is reported under consideration.

Tenn., Nashville.—A. B. Leach & Co. of Chicago are reported to have been awarded at 101.565 the $500,000 of 4½ per cent. sewer bonds. W. L. Murray is City Recorder.

Tenn., Nashville.—Bids will be received until 10 A. M. April 20 for $80,000 of 5 per cent. 25-year Davidson county bonds. Address W. M. Pollard, County Judge, Nashville, Tenn., or Thomas J. Nance, chairman, care Remy-Nance Printing Co., Nashville.

Tenn., Newport.—Official: April 29 an election is to be held to vote on $50,000 of 5 per cent. 30-year water-works bonds. F. M. Greer is Mayor.

Tex., Anahuac.—Official: January 29 road districts 2 and 3, Chambers county, voted $46,000 of 5 per cent. 20-year bonds; denomination $500; dated February 14, 1910; H. H. Jackson is County Judge.

Tex., Asherton.—Reported voted: $15,000 of school bonds.

Tex., Austin.—The Attorney-General has approved the following securities: $20,000 of 5 per cent. 10-40-year Texas City independent school district bonds; $16,800 of 5 per cent. 25-40-year Kerens independent school district bonds; $15,000 of 5 per cent. 20-40-year League City independent school district bonds; $5000 of 5 per cent. 20-40-year Anderson county independent school district bonds; $3000 of 5 per cent. 25-year Clay county common school distrist No. 9 bonds.

Tex., Brenham.—Robert Leonard is reported to have purchased at par $57,000 of 5 per cent. levee construction bonds; denomination, $1000; dated January 1, 1911; maturity, part yearly from 3 to 40 years, inclusive.

Tex., Canadian.—Sutherlin & Co., Kansas City, are reported to have been awarded $10,000 of 6 per cent. 10-20-year improvement bonds at 101.

Tex., Caldwell.—Official: Bids will be received until April 6 for $6000 of 5 per cent. 40-year standpipe bonds; dated March, 1911; denomination $500. Address I. A. Gray, Mayor.

Tex., Calvert.—Reports state that the election to vote on $25,000 of city hall bonds has been postponed from April 4 to April 18. Seth Burnitt is Mayor.

Tex., Conroe.—Montgomery county is reported to have voted road bonds.

Tex., Coleman.—City is reported to have sold $20,000 of 5 per cent. 5-40-year electric-light-plant improvement bonds.

Tex., Corpus Christi.—Reported voted: $50,000 of wharf bonds.

Tex., Crockett.—Reported voted: $150,000 of road district bonds.

Tex., Farmersville.—April 11 an election is to be held to vote on $10,000 of street improvement bonds.

Tex., Fort Worth.—Press dispatches state that $1,000,000 of the municipal-improvement bonds were sold at par with accrued interest and $100 to Rufus Coy, vice-president of the Western National Bank, representing a syndicate in which the Commerce Trust Co. of Kansas City is a member. Syndicate has an option until August 1 on the remaining $1,000,000.

Tex., Houston.—The question of issuing $500,000 of school bonds is reported under consideration.

Tex., Llano.—Official: Bids will be opened in about 10 or 15 days for $25,000 of 4 per cent. 40-year Llano county bridge bonds; denomination $1000; dated February 13, 1911. Address A. H. Wilburn, County Judge.

Tex., Lubbock.—Reported that Hoehler & Cummings of Toledo were awarded at par $25,000 of water and $55,000 of sewer 5 per cent. 15-40-year bonds.

Tex., Madisonville.—Madisonville School District is reported to have voted school bonds.

Tex., Marlin.—Official: Bids will be opened April 1 for $18,000 of 5 per cent. 40-year Falls county bridge bonds; denomination $1000; dated December 1, 1910. W. E. Hunnicutt is County Judge.

Tex., Nederland.—J. T. Sluter & Co. of San Antonio are reported to have purchased $20,000 of Nederland School District 5 per cent. 10-40-year bonds at par and accrued interest.

Tex., Seguin.—James Riley & Son of San Antonio are reported to have purchased $25,000 of 4½ per cent. street-improvement bonds. W. H. Weinert is Mayor.

Tex., Sweetwater.—A Chicago firm is reported to have purchased $100,000 of road bonds of Nolan county.

Tex., Teague.—Official: Voted $10,000 of 5 per cent. 10-40-year school building and equipping bonds. Denomination $500. Dated April 1, 1911. Address J. W. Davis.

Tex., Waxahachie.—Reported voted: $15,000 of ward school building bonds.

Tex., Westhoff.—Reported that on May 6 an election is to be held to vote on $5000 of schoolhouse bonds. Address Judge of De Witt county.

Va., Graham.—April 18, it is reported, an election is to be held to vote on $30,000 of schoolhouse bonds.

Va., Victoria.—Reported voted: $9000 of high-school building bonds.

Va., Farmville.—Official: April 18 election will be held to vote on $65,000 of bonds to buy present water-works and extend same; purchase price proposed $48,000. Address Town Clerk.

Va., Denbigh.—Official: Bids will be received until April 10 for $5000 of Denbigh school district bonds. Address School Commissioners.

Va., Luray.—Reported voted: $10,000 of water system extension bonds.

Va., Marion.—May 2, it is reported, an election is to be held to vote on $250,000 of Smyth county road-improvement bonds.

Va., Norfolk.—Harris, Forbes & Co. of New York are reported to have been awarded $110,000 of 4½ per cent. bonds at 98.03 and accrued interest. The company is also said to have option on the remaining $559,000 at the same price. R. E. Steed is City Clerk.

Va., Norton.—Bids will be received until 4 P. M. April 15 for $20,000 of sewer and $5000 of street-improvement 5 per cent. 30-year bonds, voted March 10, 1910; denomination $500; dated June 1, 1910; maturity, June 1, 1940. John Roberts is Mayor.

Va., Washington.—Press dispatches state that $10,000 of 5 per cent. 10-34-year Wakefield Magisterial District No. 1, Rappahannock county, road bonds have been purchased by D. M. Kipps and I. H. Troup of Front Royal; denomination $1000; dated March 1, 1911. A similar issue was offered November 1, 1910.

W. Va., Moundsville.—Press dispatches state that the National Exchange Bank of Wheeling has purchased $140,000 of 5 per cent. sewer bonds.

W. Va., New Martinsville.—Official: April 19 election will be held to vote on $100,000 of 5 per cent. 10-34-year bonds in aid of construction of Clarksburg Northern Railroad from New Martinsville to Middlebourne, W. Va. Address T. M. Jackson, Clarksburg, W. Va.

W. Va., Wheeling.—Reported that an ordinance has been prepared providing for $200,000 of 4½ per cent. 10-34-year filtration bonds

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At Farmville, N. C., bids will be received until noon April 15 for $5000 of 5 per cent. 30-year electric-light, water and street-improvement bonds. *Further particulars will be found in the advertising columns.*

At Red City, N. C., bids will be received until 11 A. M. April 27 for $35,000 of 5½ per cent. 30-year water-works and sewerage bonds. *Further particulars will be found in the advertising columns.*

FINANCIAL NOTES.

The Bank of Paris at Paris, Ark., is reported to have increased its capital to $100,000.

It is now stated that the annual meeting of the Georgia Bankers' Association will be held at Tybee June 8.

The Bank of Commerce at Grenada, La., proposes, it is stated, to increase its capital from $25,000 to $35,000.

The First State Bank of Fort Towson, Okla., according to press dispatches, has increased its capital from $10,000 to $25,000.

The Huntsville Bank & Trust Co. of Huntsville, Ala., is reported to be doing business in its new home in the Trade Palace Building.

The First State Bank of Skidmore, Tex., has, according to press dispatches, increased its capital from $10,000 to $25,000. J. B. Hunter is president.

A condensed statement of 283 State and four private banks at close of business March 7 shows total resources, $66,578,110; loans and discounts, $50,271,738; due from banks and trust companies, $7,221,775; capital stock paid in, $10,982,330; surplus fund, $3,543,383; undivided profits less current expenses and taxes paid, $2,423,357; due to banks and trust companies, $1,098,025; demand and time certificates of deposits, $3,687,957.

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Rate 20 cents per line per insertion. Minimum space accepted, four lines. Maximum space accepted, 24 lines. Allow seven words per line. Terms: Invariably cash with order; check, postoffice or express order or stamps accepted. No display type used. Questionable or undesirable advertisements will not be accepted. The assistance of our readers in excluding undesirable advertisements is requested. We reserve the right to refuse any advertisement. No patent medicine, whiskey or mining stock advertisements accepted. Rate for special contracts covering space used as desired within one year, as follows: 100 lines, 18c. per line; 300 lines 16c. per line; 500 lines or more, 15c. per line.

AGENCIES WANTED

PACIFIC COAST AGENCY WANTED.—Are you represented on the coast? Live wire and hustler with selling organization and many connections is open for a good line. At present in the East ready to investigate a line of merit. "G. B.," care of Premier Eng. & Mfg. Co., 25 Broad St., New York.

AGENTS AND SALESMEN WANTED

WE WANT SALESMEN visiting building trades to sell our line of wood mantels, tiles and grates as a side line; good commission paid. W. J. Northcross Company, 64 S. Second St., Memphis, Tenn.

WANTED—High-grade salesman with grit and determination to sell merchants and doctors; exceptional opportunity and very remunerative for right man. Address Sheehy Co., McClelland Bldg., Lexington, Ky.

WANTED—Real salesmen acquainted with building and contract work to handle concrete mixers. The American is a batch mixer giving a perfect mix either wet or dry. It is sold under a liberal commission arrangement without requiring any financial investment by the agent. A good seller in other sections and should prove attractive in the South with pushing. Address Cargill Mfg. Co., 567 Buttles Ave., Columbus, O.

ABSOLUTELY new invention; engine-room specialty; sells on sight to manufacturers for $1. Big commission. Agents and jobbers wanted. P. O. Box 621, Richmond, Va.

MANAGERS WANTED

MANAGER FOR WAGON WORKS.—Established in one of the most progressive cities in the Southeast; equipped for 100 to 300 wagons per year. Splendid timber district. Excellent opportunity for experienced man with $2500 or more to invest in the business and manage its affairs. For further information refer to file No. 35,176 and address M. V. Richards, Land and Industrial Agent Southern Railway, 1375 Pennsylvania avenue, Washington, D. C.

MANAGER FOR GLOVE FACTORY.—Factory includes working-shirt making; is in a prosperous town in a Southeastern State, on the Southern Railway. Competent man with $500 to invest is wanted to take entire charge of factory and office. Refer to file 21,623. M. V. Richards, Land and Industrial Agent, Southern Railway Company, 1375 Pennsylvania Ave., Washington, D. C.

HELP WANTED

WANTED—Two experienced friction engineers and two experienced pile foremen; men must be thoroughly familiar with the erection of pile drivers and the driving of piles on railroad construction work. In making application, give experience, reference and salary expected. If proper agreements can be made with thoroughly reliable contractors, we would sub our pile driving, which will amount to about 4000 piles, varying in length from 35 to 50 feet. Address J. E. Porter & Co., Railroad Contractors, Weldon, N. C.

WANTED—Working foreman with knowledge of all kinds of concrete work; one who can handle men; we want steady, reliable man, who can make good; no other need apply. Address Burns & Houle, Sarasota, Fla.

WANTED—A practical planing-mill man to handle two machines; must understand his business and be able to serve the local trade and load out cars quick. F. C. Thomas, Manning, S. C.

SITUATIONS WANTED

CIVIL ENGINEER, graduate, 7 years' practical experience in railroad and municipal work, will accept position at once; location immaterial. Address No. 771, care Manufacturers Record.

POSITION WANTED by young man, 28, experienced in soliciting, bidding and operating contracts for street paving, sidewalks and concrete construction; technical education; will solicit or build. Address Dodge, P. O. Box No. 675, Knoxville, Tenn.

WANTED—Position as draftsman and estimator for general contractor; two years' experience as draftsman and fifteen years' as estimator, building and mill superintendent. Address No. 767, care Manufacturers Record.

GRADUATE CIVIL ENGINEER, 31, with number years' practical experience, now employed, wishes connection with contractor or contracting engineer on salary and percentage basis; good estimater, designer, buyer and business-getter on reinforced concrete, brick, steel or other large work; will invest yearly amounts in the business; am now producing good results, although under adverse conditions. Only reliable parties and those meaning business need reply. Address No. 760, care Manufacturers Record.

DRAUGHTSMAN on ornamental iron, 18 years' office and shop experience on stair work, elevator enclosures, etc., wishes position. Address No. 766, care Manufacturers Record.

CIVIL ENGINEER, contractors' superintendent, 10 years' experience location, construction, maintenance and operation of Southern railroads, desires change. Address No. 745, care Manufacturers Record.

CIVIL ENGINEER of eight years' practical experience in railroad construction will be open for employment after April 1; South or Southwest preferred. Address "M. C. G.," Box 261, Ashland, Ky.

WANTED—Position as secretary of industrial club, board of trade or chamber of commerce; young man who can get the goods; best references. Baxter Genoble, Bethune, S.C.

WANTED—Position as Southern representative for a reliable Eastern or Western house by young man of wide acquaintance among manufacturing industries, architects and engineers of the South. Seven years' experience. Teetotaler. Absolutely reliable and trustworthy. Can give highest possible recommendations. Address No. 765, care of Manufacturers Record.

WANTED.—Position as Master Mechanic or Supt. in a pipe foundry or manufacturing plant; 25 years' experience. Address N. W. Cor. 6th and Washington Sts., Camden, N. J.

AS MANAGER of brick or tile plant; Southern preferred; 20 years' experience in all departments; can handle any kind of clay or machinery; references. Address No. 754, care Manufacturers Record

EDUCATIONAL

RENSSELAER POLYTECHNIC INSTITUTE, TROY, N. Y.—Courses in Civil, Mechanical and Electrical engineering, and General Science, leading to the degrees of Civil Engineer (C.E.), Mechanical Engineer (M.E.), Electrical Engineer (E.E.), and Bachelor of Science (B.S.). Special courses in engineering and science. Splendidly equipped new engineering laboratories. Send for catalogues to Registrar.

BANKS

THE CITIZENS' BANK OF NORFOLK, Va., capital $300,000, surplus $375,000, solicits accounts of banks, firms, corporations and individuals.

COMMERCIAL STATE BANK, Birmingham, Ala. State depository. Prompt attention to Alabama collections.

THE PALMETTO NATIONAL BANK, Columbia, S. C., capital $250,000, solicits accounts of banks, firms, corporations and individuals, either commercial or savings accounts.

ACCOUNTANTS AND AUDITORS

SHELDON AUDIT COMPANY, certified public accountants and auditors, Candler Building, Atlanta, Ga. Audits, systems, examinations. Highest testimonials. Reasonable charges. Correspondence solicited.

BUSINESS OPPORTUNITIES

FOR SALE BY OWNERS—Manufacturing plant with 2400 acres of timber land, in the north Mississippi oak belt; 32 cottages, commissary, stables, drykiln, and factory buildings with 18,000 ft. floor space; 200 H. P. steam plant; inexhaustible supply of deep-well water; railroad station, sidetrack, etc.; good farm land when the timber is removed; a fine proposition for getting out rough or finished stock for factory requiring oak or hickory. Address H. J. S., Pyland, Miss.

AGENTS WANTED to send us safety-razor blades to be resharpened. If you have a good location you can add from $10 to $20 to your monthly income with ease. We furnish you with advertising matter and price lists. No soliciting. Fine opportunity to build up a profitable business. Velvet Edge Co., Keyser Bldg., Baltimore, Md.

WANTED.—A stone company with financial standing very satisfactory, which was organized and incorporated two years ago, wants an experienced and practical man to invest and operate plant for grinding white limestone; located on two railroads and the Mississippi River. Address No. 768, care Manufacturers Record.

A PRACTICAL FURNITURE MAN wishes to join others in manufacturing business on a small or large basis. Address No. 769, care Manufacturers Record.

I HAVE a clean money-making proposition for some sheet-metal plant with press capacity. If you want all the business you can handle, investigate the offer. C. A. Ellis, Lexington Ave., Ft. Smith, Ark.

WANTED—A partner in the best-established and one of the oldest furniture and carpet businesses in Oklahoma. Don't answer unless you have the money and mean business. Address P. O. Box 446, Chickasha, Okla.

BUSINESS CHANCE.—Turpentine proposition for sale at a bargain. For full and complete information and reason for selling address Capital Heights Co., Tallahassee, Fla.

NAMES.—Texas gin and mill men, ten thousand, only $10; six thousand truck and fruit growers, $5; taxpayers in several counties, 50 cents per thousand. The Truck Farmer Publishing Co., Dallas, Tex.

WANTED—To correspond with desirable associates who can finance one of the largest and most desirable coal properties, situated on the Norfolk & Western Railroad in West Virginia. Address Dawson Development Co., Room 406, Coyle & Richardson Building, Charleston, W. Va.

WILL sell outright, royalty or exchange for land, entirely new household article; cheaply manufactured; suitable for mail-order, agent or novelty trade. Arthur C. Dunn, Vanderbilt, Pa.

FOR SALE.—In the South there is a most wonderful place for the perfect cure of rheumatism and many diseases. It is called the "Electric Rocks." There are three rooms built against a large rock. There is a well of fine electric water in one. Helpless persons are laid on cots with their feet touching the rocks. Others sit in chairs. The sensation produced feels like an electric current passing through you. Other mineral springs are on the place. The situation is beautiful and climate most pleasant the year round. Property includes buildings and 150 acres land. For price and particulars apply to Mrs. S. A. White, 2210 Highland Ave., Birmingham, Ala.

WANTED—A partner with $6000 to engage in the Sheet Metal Manufacturing Business at San Antonio, Texas; city of 100,000 population and territory of 200 miles square without a plant of this kind. Finest proposition of this kind in the Southwest. Write to me at once if you mean business. C. P. Hollingsworth, Georgetown, Texas.

IF YOU HAVE STANDING TIMBER FOR SALE, list it with us. We will find a buyer. We cannot undertake to sell anything not worth the money. Branchville Timber Co., Branchville, Va.

WANTED—A first-class planing-mill and carpenter-shop foreman who can take one-half interest in $20,000 business and look after the factory end of the business; fine location, good climate, and on main line of the best railroad in the South. Address No. 761, care Manufacturers Record.

WANTED—To sell outright or contract with manufacturer to make and sell on royalty basis, improved combination lemon squeezer and slicer; patent pending; simple; cheap. Garland Kirvin, Box 153, Linden, Ala.

FOR SALE—Grocery, feed, coal, coke and wood business in a city of 5000 inhabitants, with only three coal dealers; doing a business of $10,000 a year; located in one of the finest cities in Michigan, with the best of schools, etc. Parties meaning business, for further particulars, write McMillen & Son, Mt. Pleasant, Mich.

FOR SALE—Profitable jobbing business staple hardware specialties; investment about $3500; good future; good reasons for selling; might consider small piece good land in exchange. Address No. 762, care Manufacturers Record.

SEWAGE DISPOSAL

SEWAGE DISPOSAL.—The Annular System House Sewage Disposal is adapted to private residences, hotels, schools, courthouses and jails. The patronage of small towns and communities is especially solicited. Write us. Annular Sewage Disposal Co., 453 Hood Building, Birmingham, Ala.

TYPEWRITERS

ENTERPRISE EXCHANGE, INC., 609 E. Baltimore St., Baltimore, Md.; remanufactured typewriters, all makes; three days' examination allowed; catalogue upon request; full line of ribbons, carbons and papers.

TYPEWRITERS.—Real Remington, $12.00; Caligraphs, $6.00; Hammonds, Yost, Densmores or Williams, $12.00; Smith Premiers, $15.00; Olivers, $21.00; Underwoods, $25.00. Fifteen days' free trial, and year's guarantee. Four typewriter ribbons, $1.00. Typewriter Exchange, Dept. M. R., 211 West 125th St., New York City.

MONEY WANTED

CAN USE $50,000 for five or ten years at 5 per cent.; will give first mortgage on farm property at 40 per cent. valuation. B. E. Norvell, Bay City, Texas.

LOCATIONS

WHY PALMETTO LEADS.—The 800,000 boxes of fruits and early vegetables attests the superiority of soil, climate and irrigation necessary to produce such crops. The ease with which such crops are handled by rail, and water make it an ideal place for fruit and vegetable growing. The Manatee River, Terra Ciua and Tampa bays furnish ideal salt-water fishing, boating and bathing. For further information address The Manatee River Board of Trade, Palmetto, Florida.

FACTORY SITES

FREE SITES and other liberal assistance; cheap fuel; natural gas, oil, coal and abundant water; six railroads. Address Chamber of Commerce, Wichita Falls, Texas.

FACTORY SITES.—Free sites and other concessions for factories; center of the greatest coal field in the West; excellent shipping facilities; need cottonseed-oil mill, furniture factory, tile and brick factory and cement-brick plant. Industrial Club, Hartshorne, Okla.

INDUSTRIES WANTED

MISCELLANEOUS

HARRIMAN, TENNESSEE, offers unequaled opportunities in certain manufacturing lines. Cheapest fuel in the South. Five railway lines. Cheapest possible water and light rate. Good labor supply and splendid climatic conditions. Local parties will assist in establishing enterprises that show merit. Coal, iron and timber in abundance. Address L. B., 257, Harriman, Tenn.

ALEXANDRIA, LOUISIANA, situated in the geographical center of the State, with seven railroads and a navigable river, surrounded by magnificent forests of native woods, and in the heart of a splendid agricultural section, offers an ideal location for manufacturing industries. Correspondence solicited. Address Secretary Alexandria Progressive League.

"BUSIEST AND BEST BUILT CITY IN TEXAS," Wichita Falls, possesses unsurpassed natural resources and advantages. Offers exceptional opportunities for investors; free sites for manufacturing establishments; cheap fuel; natural gas, oil, coal, electricity and abundant water from the largest body of water in Texas; six railroads; raw material at hand; latest approved public utilities; creosoted wood block pavement throughout business section; over fifty miles concrete sidewalks. Most rapidly developing city in Southwest. Handsome booklet and detailed information upon request. Address Chamber of Commerce, Wichita Falls, Texas.

SAN ANTONIO, TEXAS, with her splendid facilities and ideal climate, is after many other industries, which will receive very substantial encouragement. The Real Estate Exchange will cheerfully furnish information for benefit of industries seeking new locations. Population 96,614. Cheap fuel and labor. Artesian water in abundance. Address J. C. Rice, Secretary, San Antonio, Texas.

COME TO SHREVEPORT, LOUISIANA. If you are interested in the manufacture of glass, building brick, paving brick, terra-cotta, pottery. We have iron ore, rock salt, sulphur close at hand. Natural gas at low price. Oil lands at low price. Fine hardwood and yellow pine timber. Fine farming lands at one-half the price of the same kind of lands in the North or West. Shreveport is well drained and located in the hills of Northwest Louisiana; has good climate. Write for literature. L. C. Bulkley, Secretary.

VICTORIA, TEXAS, head of navigation of Guadalupe River; center of cotton, corn, truck and citrus fruit-growing district of South Texas; country rapidly developing; opportunities for many industries. If interested in the coastal section of Texas, write for booklet "D" to the Secretary of the Progressive League.

HILLSBORO, TEXAS, is the county seat of Hill county, 65 miles south of Dallas, 55 miles east of Fort Worth, 35 miles north of Waco. Hill county raises the second to third largest cotton crop of any county in the South. Hillsboro wants a gas factory, a garment factory, an interurban street-car line. Franchise will be granted to right party. Now have three railroads located; two mail lines. For further information write A. L. Blanchard, Secy., Hillsboro, Tex.

MANUFACTURES WANTED.—Free taxes, water, gas and electricity for five (5) years; three railroads and Ohio River. C. F. Kleiderer, Henderson, Ky.

STUTTGART wants a cotton gin and compress, a cottonseed-oil mill, a flour mill, a paper mill, woodworking plants, furniture factory, drain and tile manufacturing plant and a first-class hotel. We have an abundance of the finest quality of raw material for the above-named industries, excellent railroad facilities, water-works, electric-light plant, concrete sidewalks, and it is the intention to pave the streets in the near future. Get a special report on your business from the secretary, Stuttgart Commercial Club, Stuttgart, Arkansas.